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PMP Planet
Multimedia Publishers
The Ultimate Resource

Be Future Ready
IT Planet
PRESENTS

Based on the suggested skills under
National
Education
Policy
2020
★

SourceC<>de

Artificial Intelligence

Animated Life Skills

Coding

Computational Thinking

Experiential Learning

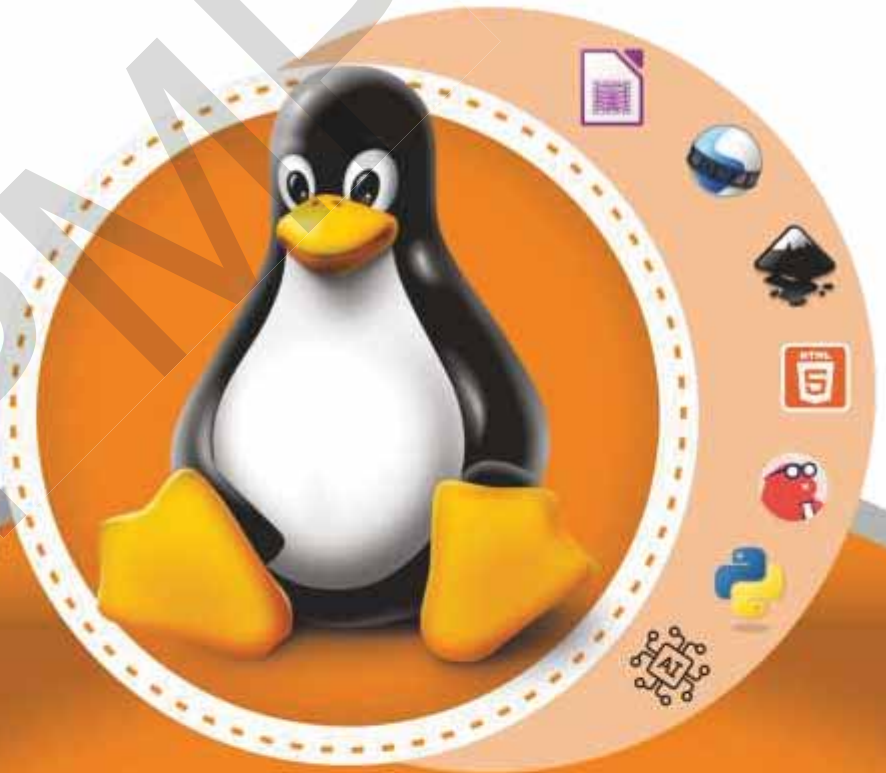
Multidisciplinary Approach

Subject Integration

Art Integration

Skill Formation

Linked with SDGs



Ubuntu 22.04
WITH LIBREOFFICE 7.3

WORKSHEET

A. Choose the appropriate options:

- Which of the following devices can be connected to a PAN?
 - Computer
 - Smartphones
 - Digital Cameras
 - All of these
- The Internet is the World's Largest
 - MAN
 - PAN
 - WAN
 - None of these
- Which of the following devices connects several devices and makes them functions as a single network segment
 - Hub
 - Modem
 - Computer
 - None of these.
- Each workstation contributes equally in the network and is often called.....
 - Peer
 - Pair
 - Workstation
 - Network
- A is a device that provides a central point for cables in a network.
 - Hub
 - Switch
 - Router
 - None of these
- Some servers perform a specific task and are called.....servers.
 - Dedicated
 - Web
 - Network
 - Print

B. Fill in the blanks:

- is required by for people to share their views and opinions.
- Each computer or device on the network is a.....
- You can transfer files and songs from one device to another using.....
- Most commonly media are and
- Wi-Fi, short for.....
- provide a high-speed wireless signal transmission.

C. Write T for the true statement and F for the false one:

- You cannot make a small Network.
- A network topology has two levels.

3. SMTP was originally developed in the early 1980s.
4. Many web addresses begin with http://.
5. A file server stores and manages files.
6. A server, sometimes called the host computer.



D. Differentiate between:

1. Switch

Router

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2. Coaxial Cable

Fiber-optic Cable

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3. Cellular Radio

Broadcast Radio

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4. HTTP

FTP

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E. Write a full form of the following terms:

1. HTTP
2. FTP
3. TCP
4. IP
5. POP3
6. IMAP
7. SMTP

F. Short Answer Type Questions.

1. What do you understand by the term Protocol?
2. What is Computer Communication?
3. What do you mean by Client?

G. Long Answer Type Questions.

1. Write a note on IMAP and SMTP?
2. Explain the levels of Network topology.

H. Application based questions:

1. The principal of your school wants to connect all the computers and devices within the school building. Which network should he/she use to do the same?
2. You need to transfer some important data from your phone to computer. What technology you used to do this.

PMP

A. Choose the appropriate options:

- In Base, a database consists of a collection of tables, organized in
 a. Rows b. Columns c. both a & b
- The format of time uses a 24-hour clock as
 a. HH:MM:SS b. HH:MM c. none of these
- The columns in an Access table are also known as?
 a. Fields b. Records c. Rows
- There are.....integer types depending on their size.
 a. Two b. Three c. Four
- Real field can hold numbers with more than.....spaces.
 a. Fifteen b. Sixteen c. Seventeen

B. Fill in the blanks:

- Each table appears as a spreadsheet grid called
- Base is a powerful open source software.
- You can..... a table to show only desired records and fields.
- is a common Boolean argument.
- key is a column whose value uniquely identifies every row in a table.

C. Write T for the true statement and F for the false one:

- Floating-point numbers are numbers with decimals or real numbers.
- SMALLINT has the size of 28.
- The main database window contains three sections.
- The default length for Number field is 100.
- Text is the string of characters.

D. Differentiate between:

1. Tiny Integer

Small Integer

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.....
.....

.....
.....
.....

2. Real

Double

.....
.....
.....

.....
.....
.....

E. Define the following:

1. DATE
2. TIME
3. TIMESTAMP

F. Short Answer Type Questions:

1. What do you mean by Database?
2. What is a Primary Key?
3. What are the two ways to view the table?

G. Long Answer Type Questions:

1. What are the components of BASE?
2. What do you mean by field properties?

H. Application based questions:

1. Parveena requires to store the information about the employees of her company. Which application you suggest her to do so.
2. Salman created a table named employees(with fields including Registration Number, Date of joining, Name and Designation). Which field out of these should be set as the Primary key?

A. Choose the appropriate options:

- Tables are also called.....
 - Datasheets
 - Date sheet
 - Sheet
- Each table has a unique
 - Primary key
 - Foreign key
 - None of these
- By creating forms, you can make your database more user-friendly for.....
 - Experienced users
 - Inexperienced users
 - both a & b
- You can create a form using.
 - Form wizard
 - form maker
 - form creator
- If you are not satisfied with the name of fields, you can the fields.
 - Delete
 - Rename
 - Change

B. Fill in the blanks:

- The selected data appears..... on your screen
- and are two views in which you can view your table.
- For setting relationship, you need at least..... tables with a common field.
- The relationship between tables can be set by using a.....
- A..... works by matching the data in the key field.

C. Write T for the true statement and F for the false one:

- You can use Table Design View to modify the design of the table.
- By creating forms, you can make your database more user-friendly.
- You can filter data in a table to display only records containing data of Interest.
- You cannot find the specific records or information in a large database.
- Filtering data can help you review and analyze information in your database.

D. Short Answer Type Questions.

1. What do you mean by sorting?
2. What do you understand by Absolute Record?
3. What are the steps to renaming the field?
4. What steps you take to delete a field in the table?

E. Long Answer Type Questions.

1. What is the use of find feature? Write the steps how to use find feature in a table.
2. How can you change the order of records in a table?
3. What do you mean by standard filter?

F. Application based questions:

1. Amir is a new managing director of SM Publications. He wants to check the sales of books in previous year in higher to lower order. What option he used to set the sales record from higher to lower order.
2. Saima is a form teacher of class 8th. She needs to see the marks of some students of her class. What she can do to see only the marks of some of the students.

PMP

A. Choose the appropriate options:

- You should click on the button in the database toolbar to achieve your purpose.
 - Run Query
 - Start Query
 - End Query
- The field or fields on which the records are sorted is called.
 - Major key
 - Minor key
 - None of these
- If you are sorting on more than one field, the more important field is called the.....
 - Primary Sort key
 - Secondary Sort key
 - None of these
- The portion at the top of the report, called
 - Page header
 - Page top
 - None of these
- You can use the to create a professionally designed report that summarizes the data from your database.
 - Report Wizard
 - Page header
 - Record Source

B. Fill in the blanks:

- is a request for specific data from the database.
- can be very important in the queries.
- is also called the Secondary Sort key.
- The lines which are printed for each record contain only those fields you specify and in the order you specify.
- The tables or queries that provide the underlying data are also known as _____ of the report.

C. Write T for the true statement and F for the false one:

- A query does not store data, it rather retrieves the data that is stored in tables.
- You cannot delete an unwanted field from your Query.
- After the query is created, you need to run the query to produce the results.
- There is no shortcut key to run the query.

5. Query is simply a question, represented in a way that Base can understand.



D. Short Answer Type Questions.

1. What are the three types of queries?
2. Name the comparison operators?
3. Write the steps to delete a field in a Query?

E. Long Answer Type Questions.

1. How can you create a Report by using Report Wizard?
2. Write the steps to create a Query?

F. Application based questions:

1. Adil created a table named "Employees". He wants to create a report for the table. What steps should he use to do the same?

PMP

A. Choose the appropriate options:

1. Openshot is an open-source editor software.

a. Video	<input type="checkbox"/>	b. Image	<input type="checkbox"/>	c. both a & b	<input type="checkbox"/>
----------	--------------------------	----------	--------------------------	---------------	--------------------------
2. The Openshot project is save with extension.

a. .osp	<input type="checkbox"/>	b. .ops	<input type="checkbox"/>	c. .sop	<input type="checkbox"/>
---------	--------------------------	---------	--------------------------	---------	--------------------------
3. By default, the screen is..... .

a. Black	<input type="checkbox"/>	b. White	<input type="checkbox"/>	c. Green	<input type="checkbox"/>
----------	--------------------------	----------	--------------------------	----------	--------------------------
4. On the timeline, transitions are represented by rounded rectangles.

a. Blue	<input type="checkbox"/>	b. Green	<input type="checkbox"/>	c. Pink	<input type="checkbox"/>
---------	--------------------------	----------	--------------------------	---------	--------------------------
5. By default, the direction of transition effect is.....

a. Left to right	<input type="checkbox"/>	b. Right to left	<input type="checkbox"/>	c. Top to bottom	<input type="checkbox"/>
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B. Fill in the blanks:

1. is a recording of moving images that narrates a story.
2. OpenShot is editing software.
3. represents the current playback position.
4. The ruler shows the..... scale for your video.
5. window enables you to view the entire edited video.

C. Write T for the true statement and F for the false one:

1. You can use your smart phones to record videos.
2. By default, Openshot is not installed in your computer.
3. You can drag a clip at any position on the timeline.
4. You cannot change the direction of transition effects.
5. There are nearly 1000 emojis integrated into Openshot.

D. Define the following:

1. Filter Box.
2. Time line.
3. Preview Window.

E. Short Answer Type Questions.

1. Where can you store movies?
2. What do you mean by OTT platform?
3. Name some software programs which can be used for editing a movie.
4. How can you start Openshot?
5. What do you understand by Tracks?

F. Long Answer Type Questions.

1. How can you add videos, photos and audio files in Openshot?
2. Write the steps to apply visual effects?

G. Application based questions:

1. Hamzah creates a video in Openshot and he wants to upload his video on YouTube. What format he used for this.
2. Nadeem clicked some pictures in his uncle's marriage. Now he wants to create a video file with these pictures. Suggest him how to do it.

A. Choose the appropriate options:

- offers the tools you need to create accurate and professional looking page layouts.
 - Inkscape
 - GIMP
 - MS Paint
- is the rectangular area that represents the printable section of the document window.
 - Canvas
 - Document page
 - Workplace
- You can optionally round the corners of a after drawing.
 - Rectangle
 - Square
 - both a & b
- handle is used to round the corner of the shape.
 - Corner shape handle
 - Resize handle
 - None of these
- After creating an ellipse, you can change it into an shape.
 - Arc
 - Pie
 - both a & b

B. Fill in the blanks:

- Inkscape is an open-source drawing tool for and..... vector graphics.
- Inkscape offers the tools you need to create and looking page layouts.
- is a quick way to apply color on shapes.
- After creating a square or a rectangle, handles appear on the shape.
- handle is used to convert the circle into arc.

C. Write T for the true statement and F for the false one:

- Inkscape is used in advertising, printing, publishing, sign making or manufacturing.
- Swatches is displayed at the bottom of the Canvas.
- Color Palette is a bar that contains color Swatches.

4. Inkscape provides a convenient way to reposition the objects.
5. Inkscape provides many outline styles.



D. Define the following:

1. Pattern.
2. Swatch.
3. Wheel.
4. CMS.

E. Differentiate between:

1. Linear Gradient

Radial Gradient

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.....

.....

2. Node

Segment

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.....

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F. Short Answer Type Questions:

1. How can you create a new document in Inkscape?
2. What type of shapes you create with Inkscape?
3. What do you mean by Tool box?
4. How can you create a Square in Inkscape?

G. Long Answer Type Questions:

1. How can you create a free hand line and straight line?
2. How can you change the font of Artistic Text?
3. What are the formats in which you can save you Inkscape project?

H. Application based questions:

1. Fatima wants to create a circle from an Ellipse tool. But she is unaware how to draw a circle from an Ellipse tool. Help her by suggesting the key she needs to hold while dragging the mouse pointer.
2. Ahreer creates a square by Rectangle Tool. Now she needs to creating a softening effect on corners. But she is unable to do so. Tell her what she used to create a soft corner in square.

Ch-7

HTML5 - Forms and Multimedia

A. Choose the appropriate options:

- A webpage form must include a..... button.
a. Submit button b. Reset button c. both a & b
- Webpage forms have..... important parts.
a. Two b. Three c. Four
- To setup a form, you need to specify..... important information.
a. Two b. Three c. Four
- You need to specify a word that describes the group of checkboxes. This is done using the attribute.
a. NAME b. VALUE c. SRC

B. Fill in the blanks:

- An is a type of input mechanism on a form.
- A creates a text box that is used for a single line of input.
- The tag is used to embed sound content in an HTML document.
- You must set up a form before you can add to it.
- You need to set attribute to identify the media source.

C. Write T for the true statement and F for the false one:

- The text control has two attributes.
- The <audio> tag is used to embed sound content in an HTML document.
- By default, all checkboxes are deselected.
- Each choice in a checkbox list can be either on or off.

D. Differentiate between:

1. Submit button

Reset button

.....
.....
.....

.....
.....
.....

2. GET

POST

.....
.....
.....

.....
.....
.....

E. Short Answer Type Questions.

1. What do you mean by Input Control?
2. What you need to specify before setting up a form?

F. Long Answer Type Questions:

1. Write down the attributes with description of Audio and Video tags in HTML 5.
2. What is a need of creating a list box?
3. What is a use of creating Forms?

G. Application based questions:

1. Muskaan creates a form in HTML to get details from the students for submitting examination form. But some students got some problem because they can't clear the information they entered in the form. Now what Muskaan do in this form so the students can clear their information in the form.

Ch-8

App Development (Thunkable)

A. Choose the appropriate options:

- The term 'app' is originally referred to as any application.
a. Mobile b. Desktop c. both a & b
- Thunkable has key parts.
a. Two b. Three c. Four
- Shopping apps enable us to pay through.
a. Credit card b. Debit card c. both a & b
- Thunkable is compatible with.
a. Google chrome b. Mozilla Firefox c. both a & b
- Thunkable app has components.
a. Three b. Four c. Five

B. Fill in the blanks:

- The app is a modern name for the word
- There are popular app stores.
- Thunkable is an web application.
- Flash light is an example of..... apps.
- Android was developed by

C. Write T for the true statement and F for the false one:

- You can book your flights, hotels, trains with travel apps.
- Native apps are developed for a particular platform or device.
- Some gaming apps encourage children to learn through play.
- Temple Run is an example of gaming app.
- Utility app is not used by everyone on daily basis.

D. Differentiate between:

- | | | |
|----|--------------------|--------------|
| 1. | iOS | Android |
| | | |
| | | |
| | | |
| 2. | Entertainment apps | Utility apps |
| | | |
| | | |
| | | |

E. Short Answer Type Questions.

1. What are social networking apps?
2. Give some examples of social networking apps.
3. What do you understand by travel apps?
4. What do you understand by responsive design?

F. Long Answer Type Questions:

1. How social networking apps differ from communication apps? Justify your answer with examples.
2. How entertainment apps differ from gaming apps?

G. Application based questions:

1. Hassan wants to clear his doubt in any of the subject. Due to vacations, he doesn't go to school to clear his doubt. Help him how he clears his doubt at home.
2. Fatima wants to buy shoes but she does not want to go market due to busy schedule. She doesn't know what to do now. If you know how can she buy shoes without going to market. Kindly help her.

A. Choose the appropriate options:

- A program loop consists of segments.

a. Two	<input type="checkbox"/>	b. Three	<input type="checkbox"/>	c. Four	<input type="checkbox"/>
--------	--------------------------	----------	--------------------------	---------	--------------------------
- The condition becomes false, when the loop

a. Starts	<input type="checkbox"/>	b. ends	<input type="checkbox"/>	c. exit	<input type="checkbox"/>
-----------	--------------------------	---------	--------------------------	---------	--------------------------
- The repetition continues while a condition is

a. True	<input type="checkbox"/>	b. False	<input type="checkbox"/>	c. continue	<input type="checkbox"/>
---------	--------------------------	----------	--------------------------	-------------	--------------------------
- loop is used to repeat a block of statements until there is no item in any sequence.

a. While	<input type="checkbox"/>	b. For	<input type="checkbox"/>	c. both a & b	<input type="checkbox"/>
----------	--------------------------	--------	--------------------------	---------------	--------------------------
- The range function consists of parameters.

a. Two	<input type="checkbox"/>	b. Three	<input type="checkbox"/>	c. Four	<input type="checkbox"/>
--------	--------------------------	----------	--------------------------	---------	--------------------------
- and are optional parameters of range function.

a. Start	<input type="checkbox"/>	b. Stop	<input type="checkbox"/>	c. Steps	<input type="checkbox"/>
----------	--------------------------	---------	--------------------------	----------	--------------------------

B. Fill in the blanks:

- causes a section of your program to be repeated a certain number of times.
- One segment of program loop is known as
- Loop continues until we reach the item in the sequence.
- Parameter is mandatory in range function.
- By default, range function starts from value
- When we use else with for loop, the structure is known as

C. Write T for the true statement and F for the false one:

- Control statement is the other segment of program loop.
- Programmers do not like repeating the same commands.

3. There are two types of loops in Python.
4. Range is a pre-defined function of Python.
5. Parameters are like variables which are specially defined for functions.
6. While loop is also known as entry control loop.



D. Differentiate between:

1. Counter Loop

Conditional Loop

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.....
.....

2. Break statement

Continue Statement

.....
.....
.....

E. Short Answer Type Questions:

1. What do you mean by sequence?
2. With the help of Tkinter, what can you create?
3. What do you mean by Tkinter Widget?
4. What is Label ()?

F. Long Answer Type Questions:

1. What do mean by Tkinter Layout Management? Explain its types.

G. Application based questions:

1. Mufeez's teacher gives him a task to write a program in python where he needs to put the option of Gender. But he doesn't know which button he used to describe the gender. Would you like to help him.
2. Jannat wants to importing Tkinter library, but she is unaware where she type the code and what code she needs to type.

A. Choose the appropriate options:

- are the professionals who make value out of data.
 - Programmers
 - Data scientists
 - Software engineers
- Ethical issues exist into forms.
 - Two
 - Three
 - Four
- is the chairman and CEO of Sinovation Ventures.
 - Kai-Fu Lee
 - Jackma
 - Kei-Lee
- AI is used in transportation for creating
 - License
 - E-challans
 - both a & b
- AI systems can be used for purposes.
 - Constructive
 - Destructive
 - both a & b

B. Fill in the blanks:

- The images saved in the computer are divided into
- a robot became a news anchor in Japan.
- With the help of AI, doctors can easily analyze.....or..... of patients.
- Amazon launched an intelligent virtual assistant.
- AI systems have been raising serious issues all over the world.

C. Write T for the true statement and F for the false one:

- Python, has AI-enabled tools.
- Deep Blue was developed by IBM.
- In 2018 a gender-neutral voice assistant named R was created.
- AI plays an important role in OTT platforms.
- Tesla and Uber are developing autonomous vehicles.

D. Differentiate between:

1. AI in Health Care

AI in Research

.....
.....
.....

E. Short Answer Type Questions:

1. Where, when and who coined the term ‘Artificial Intelligence’?
2. How AI can be useful in Military?

F. Long Answer Type Questions:

1. Give a detailed information about the timeline of innovations and advancements in AI.?
2. List and explain the career opportunities available in AI.
3. Is it possible in future to lose jobs due to the adoption of AI-enabled systems. If yes justify your answer.

H. Application based questions:

1. Amir wants to be a Data scientist. What he needs to become a Data scientist.

PMP

From Lesson No 1 to 5

A. Choose the appropriate options:

- A offers a central location where all the cables on a network meet.
a. Hub b. Router c. NIC
- Coaxial cable consists of a single copper wire surrounded by at least..... layers.
a. Two b. Three c. Four
- is a key that differentiates the records in a table.
a. Primary Key b. Secondary Key c. None of these
- The default field length for a text is characters.
a. 50 b. 100 c. 255
- Relationships are created and managed in a special database view called:
a. Relationship window b. Relationship tab c. Relationship pane
- By creating forms, you can make your database more user friendly for users.
a. Experienced users b. In experienced users c. both a & b
- The field or fields on which the records are sorted is called.
a. Major key b. Minor key c. None of these
- shows the time-scale for your video.
a. Ruler b. Timer c. Clock

B. Fill in the blanks:

- transmitting an idea, information, or feeling to a receiver.
- is the world's largest WAN.
- In Libre Office Base, a database consists of a collection of organized in rows and columns.
- You can a table to show only desired records and fields.
- and are two views in which you can view your table.
- The relationship between tables can then be set by using a key.
- You should click on the button in the database toolbar to achieve your purpose.

E. Short Answer Type Questions:

1. What do you understand by Transmission Media?
2. What is communication Satellite?
3. What is a Database?
4. What do you mean by Primary key?
5. How can you rename the field in Base?
6. What do you understand by the term Query?
7. What are the three types of Queries?
8. What are the two medium of Movies?

F. Long Answer Type Questions:

1. What do you understand by the term Protocol?
2. What is the need for networking? Explain any two needs.
3. Define the terms: Tables, Queries, Forms and Reports.
4. What do you understand by Relationship between tables?
5. What do you mean by form? Explain.
6. What are comparison operators?
7. What is sorting?
8. What is Openshot video Editor?

PMP

From Lesson No 6 to 10

A. Choose the appropriate options:

- is an area that displays options that change according to the active tool.
a. Tools Control Bar b. Tool Box c. Status Bar
- When you create a square or a rectangle, handles appear on the shape.
a. Three b. Four c. Five
- By default, all checkboxes are:
a. Selected b. Deselected c. None of these
- button sends the information to the appropriate location for processing.
a. Submit b. Reset c. None of these
- WhatsApp is an example of app
a. Communication b. Social Networking c. both a & b
- Thunkable has.....key parts.
a. Two b. Three c. Four
- The repetition continues while a condition is
a. True b. False c. continue
- The range function consists of parameters.
a. Two b. Three c. Four
- The term 'Artificial Intelligence' was coined in:
a. 1956 b. 1957 c. 1958
- Super computer IBM Watson won against human contestants in the television quiz show Jeopardy!
a. Two b. Three c. Four

B. Fill in the blanks:

- Inkscape is an drawing tool.
- Color Palette is a bar that contains Swatches.
- Forms provide an easy way to collect required

4. All forms should include a button for sending the data to a web server for processing.
5. is a operating system developed and supported by Apple.
6. is the combination of both native and web app elements.
7. causes a section of your program to be repeated a certain number of times.
8. A Scottish robot named was built at Edinburgh University.
9. Erica, a robot became a news anchor in
10. In Google's Alpha Go beat world champion Ke Jie in the board game Go.

C. Write T for the true statement and F for the false one:

1. Free hand tool is a very basic tool to draw lines.
2. You can assign styles in Inkscape by using Fill and Stroke pane.
3. You can create a password box that allows readers to enter confidential or secret information.
4. By adding multimedia, website messages get enhanced.
5. Native apps are developed for a particular platform or device.
6. Education apps are making things easier for children to study.
7. There are three types of loops in Python.
8. AI is used in transportation for creating e-challans.
9. Every image which is being fed to the computer is divided into pixels.
10. Charles Babbage is the father of 'Artificial Intelligence'.

D. Differentiate between:

1. RGB	HSL
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2. Radio Control	Checkbox Control
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3. Submit button	Reset button
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4. Entertainment Apps

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Utility Apps

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5. For loop

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While loop

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6. AI in Coding

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AI in Research

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E. Short Answer Type Questions:

1. Write the steps for Zoom in and zoom out in Inkscape.
2. What is outlining?
3. What do you mean by Input Control?
4. What do you mean by the term 'app'?
5. What is Thinkable app?
6. What do you mean by range?
7. What is Tkinter?
8. How AI will be beneficial in Entertainment?

F. Long Answer Type Questions:

1. What do you mean by Node and segment?
2. How can you select an object in Inkscape?
3. What do you mean by GET and POST?
4. Write a note on Hybrid app.
5. What do you understand by Break and Continue Statement?
6. What is Data Scientist?
7. What do you mean by Adoption concern?