WORKSHEET

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Chapter-1

CLASS 8

GOOGLE APPS

A. Answer the following questions:

1. What are Google slides? Write any 2 features of Google slides.

   ....

   ....

2. Write the steps to create a YouTube account.

   ....

   ....

B. Number the steps to share a Google sheet.

☐ Enter the email address(es) of the people with whom you want to share the spreadsheet in the box. Or you can copy the link if you do not know the email address.

☐ Click on the Send button to share the file.

☐ Assign permission levels by clicking on the Settings button.

☐ Click on the Share button from the top-right corner of the spreadsheet. The Share with people and groups pop-up box appears.

☐ Type a message for the receiver in the Message box.

☐ Click on the status of the receiver. You can choose from Editor, Viewer or Commenter.

C. Fill in the blanks with the hints.

Hints: share with others, map, online, automatically, grant them

1. Share icon is used to generate a link of the document to .... and .... access.

2. Hybrid and Satellite are the two kinds of .... views.

3. When working ...., changes made to the Google docs are saved ....

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Chapter-2
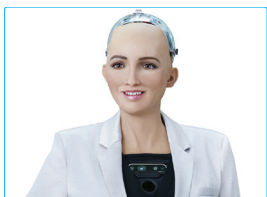
CLASS 8

TRENDING TECHNOLOGIES

A. Write the full form of the following abbreviations. Also, write a line about these technologies.

1. AR: ....
2. VR: ....
3. RPA: ....
4. IoT: ....

B. Identify the robot and write its feature.

1.
   ....
   ....
   ....

2.
   ....
   ....
   ....

3.
   ....
   ....
   ....

C. Answer the following questions:

1. What kind of apps are Siri and Alexa?

   ....

2. What has eye-covering headset and headphones to completely replace the real world with the virtual one?

   ....

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Chapter-3

CLASS 8

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AI IN REAL WORLD

A. Write the Textual code for the following Block code:

....

....

....

....

....

....
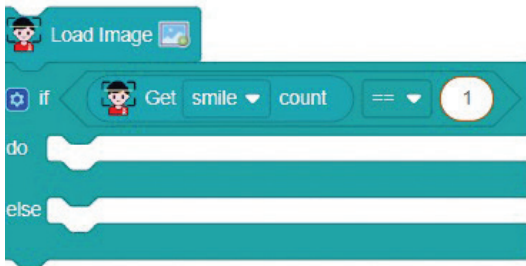
B. Answer the following questions:

1. What do you mean by Get smile count block?

    ....

2. What is the use of Smile detection technology?

    ....

3. How does incorporating the "else" command extend the functionality of the "if do" block within the "Logic category"?

    ....

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MACHINE LEARNING

A. Answer the following questions:

1. Which of the button is use to load your model with all classes?

   ....

2. What is the use of Confidence level in machine learning?

   ....

3. Write the names of the three buttons in the Load Model window.

   ....

4. Which image formats are permitted for download: PNG and JPG?

   ....

5. What happens when we click on the Train button?

   ....

B. Match the following:

1. Data Acquisition

2. Automation for Everything   a. Machine Learning Advantage

3. Highly Error-prone

4. Continuous Improvement   b. Machine Learning disadvantage

5. Algorithm Selection

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AI DOMAINS

A.   Match the following:

1.   Emoji Scavenger Hunt   a.   Data

2.   Rock Paper Scissors   b.   Natural Language Processing

3.   Mystery Animal   c.   Computer Vision

B.   Answer the following questions:

1.   Name the 3 domains of AI.

    ....

2.   Which domain of AI is used to check patient's image and determine the ailment?

    ....

3.   Name few fields where data is used.

    ....

C.   Long answer type questions.

1.   What are the applications of computer vision?

    ....

2.   What are the advantages of NLP?

    ....

3.   What is the use of data?

   ....

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FUTURE OF ARTIFICIAL INTELLIGENCE

A. Fill in the blank.

1. In a smart city, AI and IoT can implement .... traffic solutions to ensure safe and efficient transportation for inhabitants.

2. .... posts can also be fitted with additional sensors, or serve as Wi-Fi network hotspots.

3. In schools, ... is largely ruled by human-to-human interaction.

4. .... uses cognitive science and AI technology to provide personalised/ group tutoring and real time feedback for students.

B. Identify the pictures and Write their names in the provided space.

1. ....

2. ....

3. ....
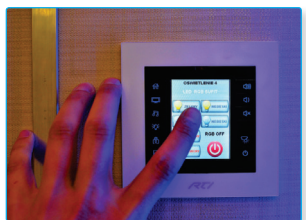
4. ....

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SUSTAINABLE DEVELOPMENT GOALS

A. Answer the following questions:

1. What is the principle of SDGs?

....

2. What is the aim of Goal 2?

....

3. How does Goal 7 ensure access to affordable, reliable, sustainable and modern energy for all?

....

4. What is the aim of Goal 13?

....

B. Match the following:

GOOD HEALTH
AND WELL-BEING

1.   a. Goal 7

AFFORDABLE AND
CLEAN ENERGY

2.   b. Goal 15

SUSTAINABLE CITIES
AND COMMUNITIES

3.   c. Goal 3

LIFE
ON LAND

4.   d. Goal 11

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Chapter-8

CLASS 8

CAREERS IN AI

A. Tick (✓) the correct option.

1. Which of the following is not soft skills?

   a. Collaboration Skills ☐ b. Critical Thinking Skills ☐

   c. Leadership Skills ☐ d. Programming Skills ☐

2. The .... skills are the abilities or knowledge used for practical tasks in the field of science, technology, engineering, etc.

   a. Soft ☐ b. Technical ☐

   c. Both (a) and (b) ☐ d. None of these ☐

3. Which of one of these are skilled programmers who develop machines and systems that can learn and apply knowledge without precise direction from a human?

   a. Machine Learning Engineer ☐ b. Robotics Engineer ☐

   c. Computer Vision Engineer ☐ d. Data Scientist ☐

4. .... is a deep-learning software company that specializes in conversational interfaces to solve specific and high impact problems in the enterprise.

   a. Doxper ☐ b. Expertrons ☐

   c. Avaamo ☐ d. Niki.ai ☐

B. Fill in the blanks.

a. .... engineers research, design, develop or test robotic applications.

b. A .... is responsible for collecting, analysing and interpreting huge amount of data.

c. .... can be defined as newly established businesses founded by some very creative people termed as entrepreneurs.

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ACCESS TO AI AND ETHICAL ISSUES

A. Tick (✓) the correct option.

1. What is the biggest challenge to the wider adoption of AI, according to the passage?

    a. Lack of creativity in AI systems

    b. Unclear regulations around ethical misuse of AI

    c. Difficulty in managing the massive datasets used by AI

    d. Absence of user-friendly interfaces for AI

2. What is a significant concern related to data management in AI systems, as illustrated in the passage?

    a. Excessive data usage leading to system crashes

    b. Unauthorized access to user information

    c. Lack of data availability for AI systems

    d. Inadequate data storage capacity

3. What types of information can Google access if users grant permissions to its pre-installed apps on Android smartphones?

    a. Contact lists and call logs

    b. Social media activity and passwords

    c. Medical records and financial transactions

    d. Weather forecasts and news updates

B. Write 'T' for true and 'F' for false.

1. Google's access to user information on Android smartphones is strictly controlled and limited.

2. The passage highlights concerns about the blurred boundaries around data privacy and security in the context of AI technology.

3. An AI system is only as accurate and efficient as the amount of data it learns from.

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BASICS OF PYTHON

A. Tick (✓) the correct option.

1. .... has the highest precedence in a logical expression?

    a. Addition ☐ b. Multiplication ☐

    c. Exponential ☐ d. Parentheses ☐

2. .... is/are used for comments in Python?

    a. // ☐ b. ‘’ ☐

    c. /**/ ☐ d. # ☐

3. The language understood by the computer is ....

    a. Assembly language ☐ b. Machine language ☐

    c. High-level language ☐ d. 4GL ☐

B. Write 'T' for true and 'F' for false.

1. The input() function allows to display output on the screen while a program executes. ....

2. Machine language is also known as first generation language (1GL). ....

3. The logical operators are used primarily in the expression evaluation to make a decision. ....

C. What will be the output of the following program?

1. p, q, r = 10, 20 ,30 print(p, q, r)

    ....

2. a = 4.5 b = 2 print (a//b)

    ....

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CONTROL FLOW STATEMENTS

A. Fill in the blanks.

1. The if statement is the simplest .... statement.

2. In Python, the .... value is interpreted as false.

3. .... statements may give the results true or false.

4. The decision block will be executed if and only if the provided condition evaluates to ....

B. Write 'T' for true and 'F' for false.

1. The if statement is the simplest conditional statement. ....

2. Python allows nested if statement. ....

3. The if…elif…else ladder is a conditional statement in Python. ....

4. The if statement executes a command if the provided condition evaluates to false. ....

5. The if...elif...else statement allows you to test single condition. ....

C. Answer the following questions.

1. Write a short note on decision making statement.

   ....

2. Write the syntax for the if…else statement.

   ....

3. Write a python program to convert Fahrenheit to Celsius.

   ....

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