Computer Science(083)

Class XI

Holiday Homework

(i) Dear Students make the Digital poster /PPT on the following topics already assigned in the class room .

Unit 3: Society, Law and Ethics

- **Digital Footprints**

- **Digital Society and Netizen: net etiquettes, communication etiquettes, social media etiquettes**

- **Data Protection: Intellectual property rights (copyright, patent, trademark), violation of IPR (plagiarism, copyright infringement, trademark infringement), open source software and licensing (Creative Commons, GPL and Apache)**

- **Cyber Crime: definition, hacking, eavesdropping, phishing and fraud emails, ransomware, cyber trolls, cyber bullying**

- **Cyber safety: safely browsing the web, identity protection, confidentiality**

- **Malware: viruses, trojans, adware**

- **E-waste management: proper disposal of used electronic gadgets.**

- **Information Technology Act (IT Act)**

- **Technology and society: Gender and disability issues while teaching and using computers**

Complete the following assignment of simple python programs and start preparing the practical file .Practical file must have the following programs(with comment on top and output at the end)

Assignment

Note:

- **Programming language – Python**
- **Take the input and display the result with appropriate message.**
- **Use proper name of the variables.**
- **Write the statements with first column (Do not indent them).**

1. **Write a Python script to accept two numbers and display their addition, difference, product, division, integer division, remainder and exponent (raise to power).**
2. **Write a Python script to accept marks in three subjects (out of 100) and display its total marks and percentage.**
3. **Write a Python script to accept principal amount, rate of interest and time in years and display simple interest. Note: S = PRT / 100**
4. **Write a Python script to accept a number and display square and cube of a number.**
5. **Write a Python script to accept radius of a circle and display its area and circumference.**
6. **Write a Python script to accept base and height of a triangle and display its area. (Area =½ * b * h)**
7. **Write a Python script to accept three sides of a triangle and calculate its area using Heron's formula.**
   s = (a + b + c) / 2 **A =** $\sqrt{s * (s - a) * (s - b) * (s - c)}$
8. **Write a Python script to accept temperature in Fahrenheit and display it in Celsius. C =(F – 32) * 5/9**
9. **Write a Python script to accept time in minutes and display corresponding time in hours and minutes. Example, if Input is 75 minutes, the output is 1 hour 15 minutes.**
10. **Write a Python script to swap (interchange the value) of two numbers. Display two numbers with memory location before and after swapping.**
11. **Write a Python script to display the following output using a single print statement.**

    Courage is
    grace
    under
    Pressure.

12. Write a Python script to accept marks in five subjects display the following output using a single print statement.

Example, if the input numbers are 90 70 69 77 99, then output is

Mathematics = 90 English = 70 Science = 69 Social Studies = 77 Sanskrit = 99

13. Write a Python script to accept your name, class, section and display the output in the following manner:

NAME: < yourname>

CLASS: < Your class> SECTION: < Your section>

14. Write a Python script to display the following message on the screen The professor said, "Please don't sleep in the class". "Opportunities don't happen. You create them."

Try not to become a person of "success" but try to become a person of "value".

15. Write a Python script to accept first name, middle name and last name and display the full name. For example,

Input	Output
first name is Ankit Kumar Jain middle name is Kumar last name is Jain	Ankit

16. Write a Python script to accept your name and a number. Display your name so many times on the screen.

Input	Output
Name is Ankit	AnkitAnkitAnkit Number is 3

17. Write a Python script to accept five subjects you have taken in class 11 and display all the subjects with * sign between them. For example,

Input

English, Informatics Practices, Accounts, Economics, Business Studies

Output

My Subjects are:

English * Informatics Practices * Accounts * Economics * Business Studies