

Assignment – 1

Python Basics and External Modules

1. Display the following statements.
 - a. Hello World
 - b. Use a single print statement to print the following pattern.
Hint: Use sep
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 - c. Use three print statement to print “My name is Jane Doe.”, “I am a Python Programmer” and “I love Python”. Print all three statement in the same line.
Hint: use end
 - d. Print the following lines with exact format.
Twinkle, twinkle, little star,
How I wonder what you are!
Up above the world so high,
Like a diamond in the sky.
2. Write a python program to ask user to enter his/her name, roll number, branch and year. Display all the details.
3. Write a python program to accept two integer numbers and perform all arithmetic operation including exponent and floor division.
4. Write a python program to accept value for two variable and swap the variable value. Print the value of the variable before and after the swap.
5. Write a program in python that takes seconds as input, and display the total number of hours, minutes and seconds.
6. Write a python program to accept radius of circle and calculate the area and perimeter of the circle. Display the result up to two decimal process.
7. Write a program in python that accepts coordinates of two points A and B and prints out the distance between A and B.
8. Write a Python script to perform the following task using datetime and calendar module
 - a. Display current date and time
 - b. Display date separately in “dd/mm/yyyy” format
 - c. Display time in 24 hour format

- d. Display time in 12 hour format
 - e. Ask user to enter year and month number and display the calendar for that month.
9. Write a python program to perform the following task using random module.
- a. Generate a random number between 1 and 10
 - b. Generate a random float number
 - c. Generate a random float number between 10 and 100. Round the number to two decimal places.
 - d. Generate a 6 digit OTP
 - e. Generate a random alpha numeric string of length 4