

## Python Tasks – Day9

1. Write a Python program to check whether a number is negative, positive or zero.
2. Write a Python program to check whether a number is divisible by 5 and 11 or not.
3. Write a Python program to check whether a year is leap year or not.
4. Write a Python program to check whether a character is alphabet or not.
5. Write a Python program to input any alphabet and check whether it is vowel or consonant.
6. Write a Python program to input any character and check whether it is alphabet, digit or special character.
7. Write a Python program to check whether a character is uppercase or lowercase alphabet.
8. Write a Python program to input week number and print weekday.
9. Write a Python program to input angles of a triangle and check whether triangle is valid or not.
10. Write a Python program to input all sides of a triangle and check whether triangle is valid or not.
11. Write a Python program to check whether the triangle is equilateral, isosceles or scalene triangle.
12. Write a Python program to input marks of five subjects Physics, Chemistry, Biology, Mathematics and Computer. Calculate percentage and grade according to following:

Percentage  $\geq 90\%$  : Grade A

Percentage  $\geq 80\%$  : Grade B

Percentage  $\geq 70\%$  : Grade C

Percentage  $\geq 60\%$  : Grade D

Percentage  $\geq 40\%$  : Grade E

Percentage  $< 40\%$  : Grade F

13. Write a Python program to input basic salary of an employee and calculate its Gross salary according to following:

Basic Salary  $\leq 10000$  : HRA = 20%, DA = 80%

Basic Salary  $\leq 20000$  : HRA = 25%, DA = 90%

Basic Salary  $> 20000$  : HRA = 30%, DA = 95%

14. Write a Python Program to input electricity unit charges and calculate total electricity bill according to the given condition:

For first 50 units Rs. 0.50/unit

For next 100 units Rs. 0.75/unit

For next 100 units Rs. 1.20/unit

For unit above 250 Rs. 1.50/unit

An additional surcharge of 20% is added to the bill