**BASIC PYTHON PROGRAMS**

1. Program to print two different strings “Hello” and “World” in different lines.

2. Program to print two different strings “Hello” and “World” in a single line.

3. Program to add two entered integer values.

4. Program to subtract two entered integer values.

5. Program to multiply two entered integer values.

6. Program to input two integer values and calculate first number raised to the power second

number.

7. Program to find the area and perimeter of a rectangle, when the required input (Length and

Breadth) are entered by the user.

8. Program to find the area and circumference of a circle, when the radius is entered by the user.

However, the user can input radius in integer or float.

9. Program to find the hypotenuse of a right angled triangle, when the base and height are entered

by the user.

10. Program to input two numbers and print the swapped values of them.

11. Program to find the number of currency notes of each type (Rs. 2000, Rs. 500 and Rs. 100),

when the total number of currency notes counted altogether is minimum and there must be at

least a 100 rupee note dispensed. The amount to be withdrawn is to be entered by the user.

12. Program to find whether a triangle is scalene, isosceles, right angled or invalid when the sides of

the triangle are entered by the user.

13. Program to find the Simple Interest and the total amount when the Principal, Rate of Interest

and Time are entered by the user.

14. Program to find the Compound Interest compounded annually and the total amount when the

Principal, Rate of Interest and Time are entered by the user.

15. Program that calculates the number of rectangular tiles required to cover a rectangular floor if

the dimensions of the floor and the dimensions of a tile are entered by the user.

16. Program to input the number of overs in a Cricket match and output the maximum runs a

player can score in the match. Assume that there are no extra runs or NO balls in the match

played. For example, in a 50 over match, the maximum runs scored are 1653.

**IF ELSE QUESTIONS**

1. Program to find whether an input number is even or odd.

2. Program to input two numbers and subtract the smaller number from the greater number.

3. Write a program to find maximum between two numbers.

4. Write a program to find maximum between three numbers.

5. Write a program to check whether a number is negative, positive or zero.

6. Write a program to check whether a number is divisible by 5 and 11 or not.

7. Write a program to check whether a number is even or odd.

8. Write a program to check whether a year is leap year or not.

9. Write a program to check whether a character is alphabet or not.

10. Write a program to input any alphabet and check whether it is vowel or consonant.

11. Write a program to input week number and print week day.

12. Write a program to input month number and print number of days in that month.

13. Write a program to count total number of notes in given amount.

14. Write a program to input angles of a triangle and check whether triangle is valid or not.

15. Write a program to input all sides of a triangle and check whether triangle is valid or not.

16. Write a program to check whether the triangle is equilateral, isosceles or scalene triangle.

17. Write a C program to find all roots of a quadratic equation.

18. Write a C program to calculate profit or loss.

19. Write a C program to input marks of five subjects Physics, Chemistry, Biology, Mathematics and

Computer. Calculate percentage and grade according to following:

Percentage >= 90% : Grade A

Percentage >= 80% : Grade B

Percentage >= 70% : Grade C

Percentage >= 60% : Grade D

Percentage >= 40% : Grade E

Percentage < 40% : Grade F

20. Write a C program to input basic salary of an employee and calculate its Gross salary according to

following:

Basic Salary <= 10000 : HRA = 20%, DA = 80%

Basic Salary <= 20000 : HRA = 25%, DA = 90%

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

21. Write a C 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

22. A man has certain number of apples.

If he picks them in a group of 7, he can pick all of them.

If he picks them in a group of 6, 1 apple is left behind.

If he picks them in a group of 5, 1 apple is left behind.

If he picks them in a group of 4, 1 apple is left behind.

If he picks them in a group of 3, 1 apple is left behind.

If he picks them in a group of 2, 1 apple is left behind.

Write a program that identifies the minimum number of apples he has.

23. An automobile company manufactures both a two wheeler (TW) and a four wheeler (FW). A company manager wants to make the production of both types of vehicle according to the given data below:

* 1st data, Total number of vehicle (two-wheeler + four-wheeler)=v
* 2nd data, Total number of wheels = W

The task is to find how many two-wheelers as well as four-wheelers need to manufacture as per the given data.

**Example :**

**Input :**

* 200  -> Value of V
* 540   -> Value of W

**Output :**

* TW =130 FW=70