

Home Work

Class XI CS

1. Write a program to get input from user and calculate EMI as per given formula:

$E = PR(1+R)^n / ((1+R)^n - 1)$ Where-

E=EMI, P=Principal amount, R=Rate of interest, n=tenure of loan in months

2. A year is leap year if it divisible by 4, except that years divisible by 100 are not leap years unless they are also divisible by 400. Write a program that ask the user for a year and printout whether it is a leap year or not.

3. ABC shop deals with footwear and apparels. Write a program to calculate total selling price after levying the GST. Do calculate central Govt. GST and state govt. GST. GST rates are as under-

Item	GST Rate
Footwear <= 500 (per pair)	5%
Footwear > 500 (per pair)	18%
Apparels <= 1000 (per piece)	5%
Apparels > 1000 (per piece)	12%

4. Write a python script to print 'Fibonacci series' first 20 elements. Some initial elements of the series are: 0 1 1 2 3 5 8 . . .

5. Write a python script to read an integer > 1000 and reverse the number.

6. Write a program in Python to check whether the entered string is palindrome or not. (Hint- "madam" is a palindrome string.)

7. Write a program in Python to count the frequency of words in given string using a dictionary.

For example This is a Computer program. Computer programs are related to real world. Developing programs is an art.

Output : This :1 , is : 2, a:1, Computer : 2 program : 1 are : 1 and so on.

8. Write a program that reads a number and finds its factorial.

9. Write to a program to find the LCM and GCD of two numbers.

10. Write a program to sort a list of 10 elements using Bubble Sort.

12 Write a program to find the sum of digits of a given number.

13. Write a program to find whether a given number is Armstrong number or not.

For more programs and tutorial for python visit following link

<https://www.geeksforgeeks.org/python-programming-language/>