1. **Write a Python Program to Find LCM?**

**ANS:-**

# defining a function to calculate LCM

**def** calculate\_lcm(x, y):

    # selecting the greater number

**if** x > y:

        greater = x

**else**:

        greater = y

**while**(True):

**if**((greater % x == 0) **and** (greater % y == 0)):

            lcm = greater

**break**

        greater += 1

**return** lcm

# taking input from users

num1 = int(input("Enter first number: "))

num2 = int(input("Enter second number: "))

# printing the result for the users

**print**("The L.C.M. of", num1,"and", num2,"is", calculate\_lcm(num1, num2))

**Output:**

Enter first number: 3

Enter second number: 4

The L.C.M. of 3 and 4 is 12

1. **Write a Python Program to Find HCF?**

**ANS:-**

# defining a function to calculate HCF

**def** calculate\_hcf(x, y):

    # selecting the smaller number

**if** x > y:

        smaller = y

**else**:

        smaller = x

**for** i **in** range(1,smaller + 1):

**if**((x % i == 0) **and** (y % i == 0)):

            hcf = i

**return** hcf

# taking input from users

num1 = int(input("Enter first number: "))

num2 = int(input("Enter second number: "))

# printing the result for the users

**print**("The H.C.F. of", num1,"and", num2,"is", calculate\_hcf(num1, num2))

**Output:**

Enter first number: 8

Enter second number: 12

The H.C.F. of 8 and 12 is 4

1. **Write a Python Program to Convert Decimal to Binary, Octal and Hexadecimal?**

**ANS:-**

**# Python program to convert decimal to binary,**

**# octal and hexadecimal**

**# Function to convert decimal to binary**

**def decimal\_to\_binary(dec):**

**decimal = int(dec)**

**# Prints equivalent decimal**

**print(decimal, " in Binary : ", bin(decimal))**

**# Function to convert decimal to octal**

**def decimal\_to\_octal(dec):**

**decimal = int(dec)**

**# Prints equivalent decimal**

**print(decimal, "in Octal : ", oct(decimal))**

**# Function to convert decimal to hexadecimal**

**def decimal\_to\_hexadecimal(dec):**

**decimal = int(dec)**

**# Prints equivalent decimal**

**print(decimal, " in Hexadecimal : ", hex(decimal))**

**# Driver program**

**dec = 32**

**decimal\_to\_binary(dec)**

**decimal\_to\_octal(dec)**

**decimal\_to\_hexadecimal(dec)**

**Output**

(32, ' in Binary : ', '0b100000')

(32, 'in Octal : ', '040')

(32, ' in Hexadecimal : ', '0x20')

1. **Write a Python Program To Find ASCII value of a character?**

**ANS:-**

**# Python program to print**

**# ASCII Value of Character**

**# In c we can assign different**

**# characters of which we want ASCII value**

**c = 'g'**

**# print the ASCII value of assigned character in c**

**print("The ASCII value of '" + c + "' is", ord(c))**

**Output**

("The ASCII value of 'g' is", 103)

1. **Write a Python Program to Make a Simple Calculator with 4 basic mathematical operations?**

**ANS:-**

**# Python program for simple calculator**

**# Function to add two numbers**

**def add(num1, num2):**

**return num1 + num2**

**# Function to subtract two numbers**

**def subtract(num1, num2):**

**return num1 - num2**

**# Function to multiply two numbers**

**def multiply(num1, num2):**

**return num1 \* num2**

**# Function to divide two numbers**

**def divide(num1, num2):**

**return num1 / num2**

**print("Please select operation -\n" \**

**"1. Add\n" \**

**"2. Subtract\n" \**

**"3. Multiply\n" \**

**"4. Divide\n")**

**# Take input from the user**

**select = int(input("Select operations form 1, 2, 3, 4 :"))**

**number\_1 = int(input("Enter first number: "))**

**number\_2 = int(input("Enter second number: "))**

**if select == 1:**

**print(number\_1, "+", number\_2, "=",**

**add(number\_1, number\_2))**

**elif select == 2:**

**print(number\_1, "-", number\_2, "=",**

**subtract(number\_1, number\_2))**

**elif select == 3:**

**print(number\_1, "\*", number\_2, "=",**

**multiply(number\_1, number\_2))**

**elif select == 4:**

**print(number\_1, "/", number\_2, "=",**

**divide(number\_1, number\_2))**

**else:**

**print("Invalid input")**

**Output:**

Please select operation -  
1. Add  
2. Subtract  
3. Multiply  
4. Divide  
Select operations form 1, 2, 3, 4 : 1  
Enter first number : 15  
Enter second number : 14  
15 + 14 = 29