1. Write a Python Program to Find LCM?

**# To find LCm of 2 numbers**

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

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

**l=[]**

**for i in range(1,num1\*10):**

**mult2=num2\*i**

**l.append(mult2)**

**for i in range(1,num2\*10):**

**mult1=num1\*i**

**if mult1 in l:**

**print("The Least Common Multiple of {} and {} is {}".format(num1, num2, mult1))**

**break**

1. Write a Python Program to Find HCF?

**# To find HCF of 2 numbers**

**l=[[],[],[]]**

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

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

**for i in range(1,num1+1):**

**if num1%i==0:**

**l[0].append(i)**

**for i in range(1,num2+1):**

**if num2%i==0:**

**l[1].append(i)**

**for i in l[0]:**

**if i in l[1]:**

**l[2].append(i)**

**print("The Highest common factor of {} and {} is {}".format(num1, num2, max(l[2])))**

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

**# Converting Decimal to Binary, octal and hexadecimal**

**num=int(input('Enter a decimal number: '))**

**i=num**

**p=[]**

**d=2**

**while d>0:**

**d,r = int(i/2),i%2**

**p.append(r)**

**i=d**

**print("The Binary eqvivalent of {} is:".format(num))**

**for j in range(len(p)-1,-1,-1):**

**print(p[j], end=" ")**

**# Converting a decimal into Octal**

**if num<8:**

**print("Octal equivalent of {} is {}".format(num,num))**

**else:**

**i=num**

**p=[]**

**d=9**

**while d>0:**

**d,r = int(i/8),i%8**

**p.append(r)**

**i=d**

**print("\n\nThe Octal equivalent of {} is:".format(num))**

**for j in range(len(p)-1,-1,-1):**

**print(p[j], end=" ")**

**# converting a Decimal number into Hexadecimal**

**if num<=9:**

**print("\n\nThe Hexadecimal equivalent of {} is {}".format(num,num))**

**if num<=16:**

**if num==10:**

**print("\n\nThe Hexadecimal equivalent of {} is {}".format(num,'A'))**

**elif num==11:**

**print("\n\nThe Hexadecimal equivalent of {} is {}".format(num,'B'))**

**elif num==12:**

**print("\n\nThe Hexadecimal equivalent of {} is {}".format(num,'C'))**

**elif num==13:**

**print("\n\nThe Hexadecimal equivalent of {} is {}".format(num,'D'))**

**elif num==14:**

**print("\n\nThe Hexadecimal equivalent of {} is {}".format(num,'E'))**

**elif num==15:**

**print("\n\nThe Hexadecimal equivalent of {} is {}".format(num,'F'))**

**else:**

**i=num**

**p=[]**

**d=9**

**while d>0:**

**d,r = int(i/16),i%16**

**if r>=10:**

**if r==10:**

**r='A'**

**elif r==11:**

**r='B'**

**elif r==12:**

**r='C'**

**elif r==13:**

**r='D'**

**elif r==14:**

**r='E'**

**elif r==15:**

**r='F'**

**elif r==90:**

**r='5A'**

**elif r==200:**

**r='C8'**

**elif r==1000:**

**r='3E8'**

**elif r==2000:**

**r='7D0'**

**p.append(r)**

**i=d**

**print("\n\nThe Hexadecimal equivalent of {} is:".format(num))**

**for j in range(len(p)-1,-1,-1):**

**print(p[j], end=" ")**

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

**#ASCII value of a character**

**letter=input("Enter a character: ")**

**print("The ASCII value of {} is {}".format(letter,ord(letter)))**

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

**# calculator with 4 basic operations**

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

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

**op=input("Choose one of these 4 operations: +, -, \*, / : ")**

**#for i in range(0,2):**

**if op=='+':**

**add=num1+num2**

**print("The sum of {} and {} is {}".format(num1, num2, add))**

**elif op=='-':**

**sub=num1-num2**

**print("The subtraction of {} and {} is {}".format(num1, num2, sub))**

**elif op=='\*':**

**mult=num1\*num2**

**print("The multiplication of {} and {} is {}".format(num1, num2, mult))**

**elif op=='/':**

**div=num1/num2**

**print("The division of {} and {} is {}".format(num1, num2, div))**