1. Write a Python Program to Find LCM?

```
In [27]:
         1 def lcm(n):
                fact=1
          2
          3
                for i in n:
                     fact=fact*i//gcd(fact,i)
          5
                return fact
          6 def gcd(x,y):
          7
                     while(y):
                        temp=x%y
          9
                        x=y
         10
                        y=temp
         11
                     return x
         12
         13
         14
In [32]: 1
          2 z=int(input('enter no.of numbers'))
          3 | list1=[]
          4 for i in range(0,z):
                 ele=int(input('enter number'))
                list1.append(ele)
          7 print('the lcm of numbers is :',lcm(list1))
          9
         enter no.of numbers 3
         enter number 400
         enter number100
         enter number50
         the lcm of numbers is : 400
```

2. Write a Python Program to Find HCF?

hcf is: 20

```
In [35]: 1 def hcf(a, b):
    if(b == 0):
        return abs(a)
    else:
        return hcf(b, a % b)

    print('enter two number')
    a = int(input('enter '))
    p = b-int(input('enter '))
    print('hcf is : ',hcf(a,b))

enter two number
    enter 80
    enter 140
```

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

```
In [13]: 1 def binary(n): # decimal to binary
                 list2=[]
                 while(n!=0):
                     list2.append(n%2)
           4
           5
                 print('binary conversion of given number is ' ,list2[::-1])
           8 def octal(n):
          9
                 list3=[]
          10
                 while(n!=0):
         11
                     list3.append(n%8)
         12
         13
                 print('octal conversion of given number is ' ,list3[::-1])
         14 def hexa(n):
                 list4=['0']*100
         15
         16
                 i=0
         17
                 while(n!=0):
         18
                     temp=0
         19
                     temp=n%16
          20
                     if(temp<10):</pre>
          21
                         list4[i]=chr(temp+48)
          22
                         i=i+1
          23
                     else:
          24
                         list4[i]=chr(temp+55)
          25
                         i=i+1
          26
                     n=n//16
          27
          28
                 j = i - 1
                 print(' hexadecimal conversion of given number is')
          30
                 while(j >= 0):
          31
                     print(list4[j],end='')
          32
                     j = j - 1
          33 n=int(input('enter number'))
          34 binary(n)
          35 octal(n)
         36 hexa(n)
         enter number2545
```

binary conversion of given number is [1, 0, 0, 1, 1, 1, 1, 1, 0, 0, 0, 1] octal conversion of given number is [4, 7, 6, 1] hexadecimal conversion of given number is 9F1

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

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

```
In [20]: 1 def add(x,y):
          2
                return x+y
          3 def substract(x,y):
          4 return x-y
          5 def multiply(x,y):
          6 return x*y
          7 def divide(x,y):
                 return(x/y)
          9 n1=int(input("enter number please "))
         10 n2=int(input("enter number please "))
         11 | z=input('enter mathmatical operator like divide,add multiply and divide ')
         13
             print('the sum is : ',add(n1,n2))
         14 | elif z=='-':
         15
                print('difference of two number is: ',subtract(n1,n2))
         16 elif z=='*':
         17
                print('multiplication of two number is: ',multiply(n1,n2))
         18 elif z=='/':
         19
                 print('division of two number is :',divide(n1,n2))
         20 else:
                 print('invalid operator')
         enter number please 45
         enter number please 15
         enter mathmatical operator like divide, add multiply and divide /
         division of two number is : 3.0
In [ ]: 1
In [ ]: 1
```