1. Write a Python class to convert an integer to a roman numeral.

class irconvert:

num\_map = [(1000, 'M'), (900, 'CM'), (500, 'D'), (400, 'CD'), (100, 'C'), (90, 'XC'),(50, 'L'), (40, 'XL'), (10, 'X'), (9, 'IX'), (5, 'V'), (4, 'IV'), (1, 'I')]

def num2roman(self,num):

roman = ''

while num > 0:

for i, r in self.num\_map:

while num >= i:

roman += r

num -= i

return roman

num=int(input("Enter any Number :"))

print("Roman Number is : ",irconvert().num2roman(num))

**Out Put:**

Enter any Number :50

Roman Number is : L

1. **Write a Python class to implement pow(x, n)**

class py\_power:

def power(x,n):

print("power of given literals:\nx:",x,"\nn\n:",n,"is:",x\*\*n)

x=float(input("ENTER X(BASE) VALUE:"))

n=float(input("ENTER N(POWER) VALUE:"))

py\_power.power(x,n)

**Out Put:**

ENTER X(BASE) VALUE:34.5

ENTER N(POWER) VALUE:4

power of given literals:

x: 34.5

n

: 4.0 is: 1416695.0625

1. **Write a Python class to reverse a string word by word**.

class py\_reverse:

def revr(self, strs):

sp=strs.split()

sp.reverse()

res=" ".join(sp)

return res

str1=input("Enter a string with 2 or more words : ")

print("Reverse of string word by word: \n",py\_reverse().revr(str1));

**Out Put:**

Enter a string with 2 or more words : IT Students

Reverse of string word by word:

Students IT