**ASSIGNMENT 5**

**Question 1.**

print("Enter numbers : ")

mylist,factlist = [int(i) for i in input().split(' ')], []

for item in mylist:

temp = 1

for i in range(1,item+1):

temp = temp\*i

factlist.append(temp)

print(factlist)

**Question 2.**

mylist = [int(i) for i in input().split(',')]

mytuple = tuple(mylist)

print(mylist, mytuple)

**Question 3.**

def myfun(d):

return int(((2\*50\*d)/30)\*\*(1/2))

inp,anslist = input().split(',') , []

for item in inp:

anslist.append(myfun(int(item)))

print(anslist)

**Question 4.**

inp = [i for i in input().split(',')]

inp.sort()

print(inp)

**Question 5.**

inp,ans = [i for i in input().split(',')], []

for item in inp:

if(int(item,2)%5==0):

ans.append(int(item))

print(ans)

**Question 6.**

sum=0

while(True):

a =input()

if(a):

new = a.split()

if(new[0]=='D'):

sum += int(new[1])

else:

sum -=int(new[1])

else:

break

print("Balance : ",sum)

**Question 7.**

import operator

inp = []

while(True):

a = input()

if(a):

new = tuple(a.split(','))

inp.append(new)

else:

break

inp.sort()

print(inp)

**Question 8.**

x,y = 0,0

while(True):

a = input()

if(a):

new = a.split()

if(new[0]=='UP'):

y += int(new[1])

if(new[0]=='DOWN'):

y -= int(new[1])

if(new[0]=='LEFT'):

x -= int(new[1])

if(new[0]=='RIGHT'):

x += int(new[1])

else:

break

print(int((x\*\*2 + y\*\*2)\*\*(1/2)))

**Question 9.**

inp = input()

inplist = inp.split()

new = []

for item in inplist:

if(item not in new):

new.append(item)

new.sort()

for item in new:

print(item,":",inplist.count(item))