**LAB4: IT LAB**

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**CSE A, 15**

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Q1)

class sub:

def f1(self, s1):

return self.f2([], sorted(s1))

def f2(self, curr, s1):

if s1:

return self.f2(curr,s1[1:]) + self.f2(curr + [s1[0]], s1[1:])

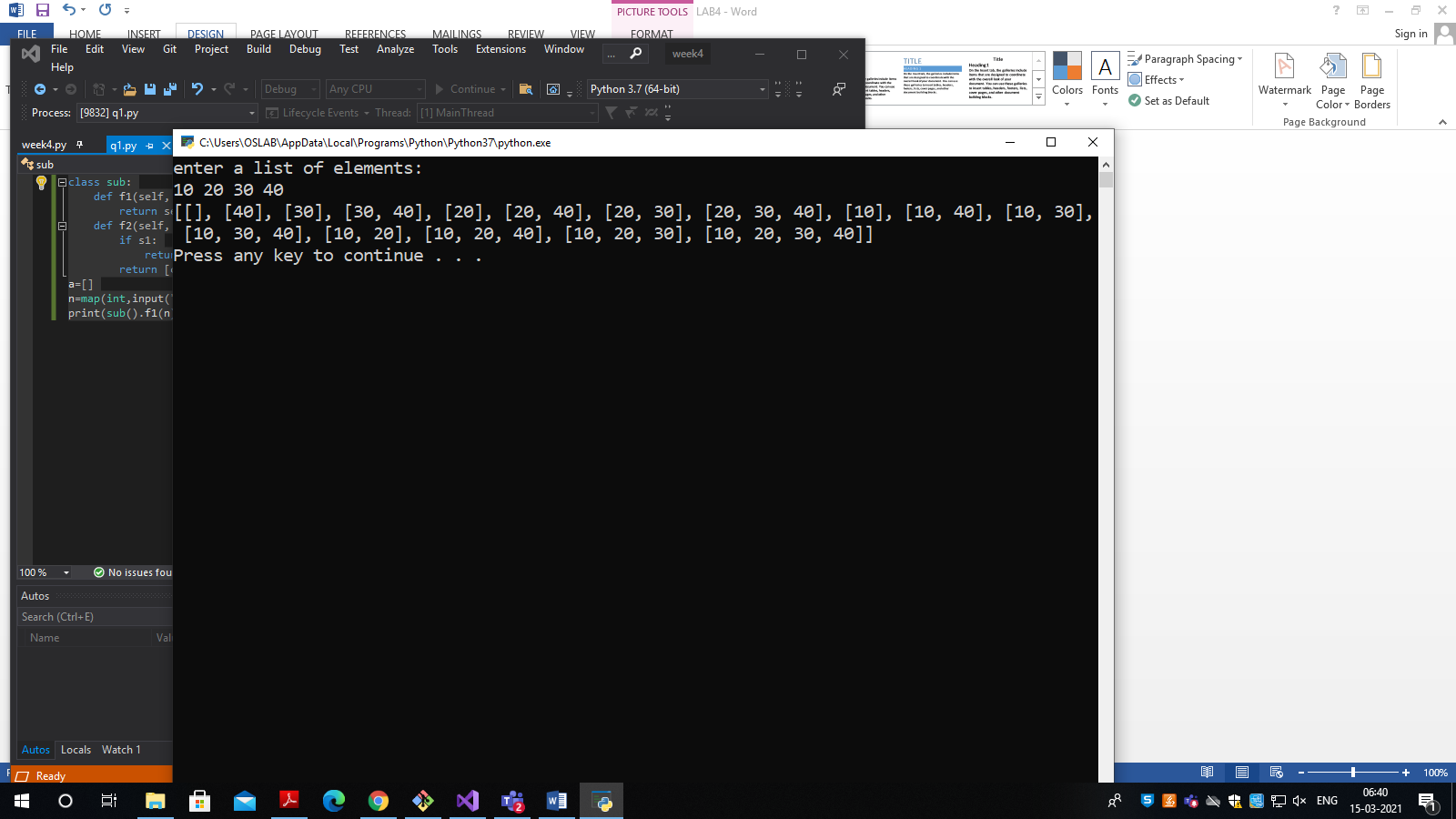
return [curr]

a=[]

n=map(int,input("enter a list of elements:\n").split())

print(sub().f1(n))

OUTPUT:



Q2)

class Pair:

def pairs(self):

flag=0

a=input("enter a list of numbers\n").split(' ')

targ=int(input("enter target value:\n"))

print("the pairs are:")

for i in range(len(a)):

for j in range(i+1,len(a)):

if(int(a[i])+int(a[j])==targ):

flag=1

print(i,",",j)

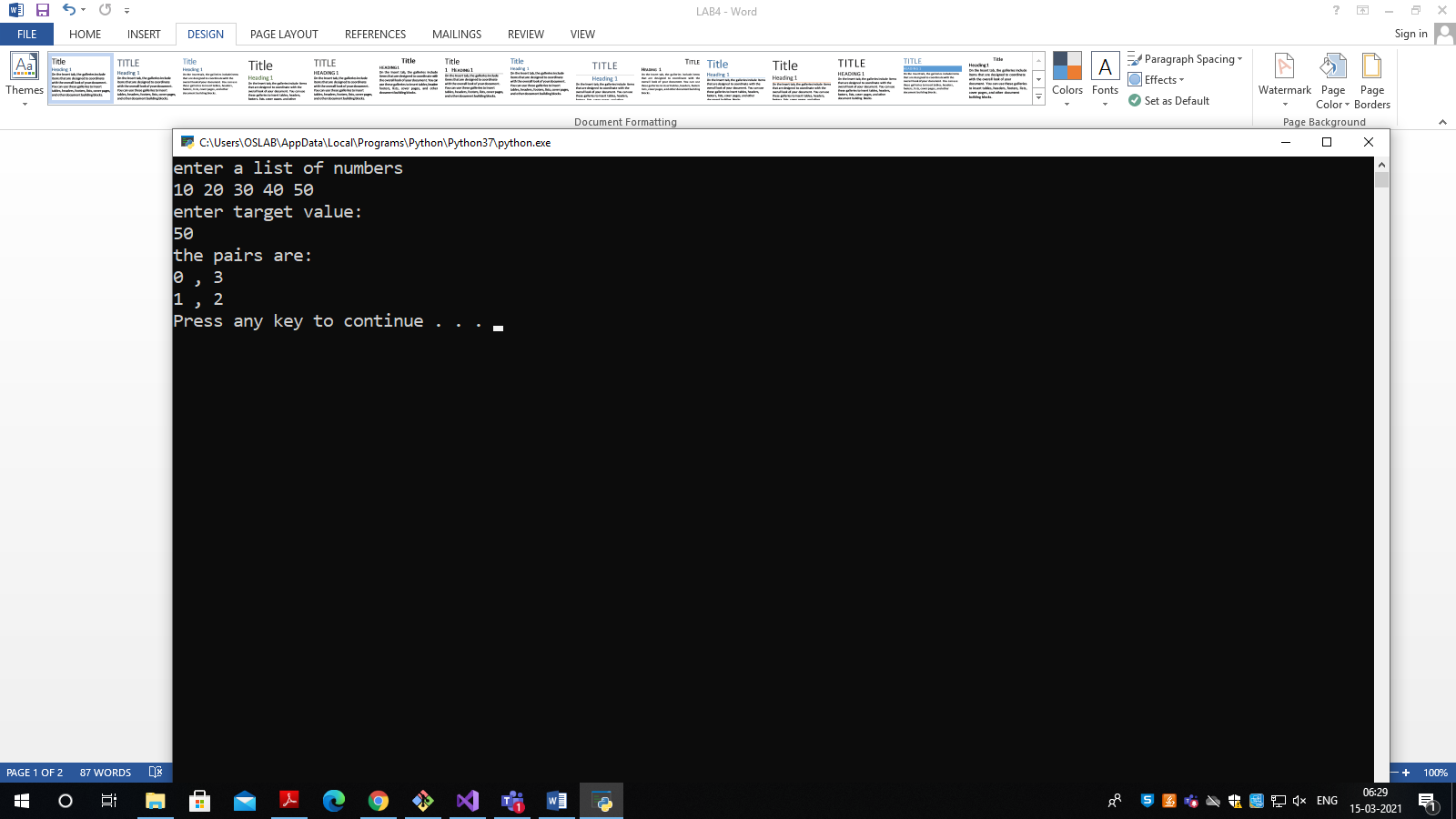
if(flag==0):

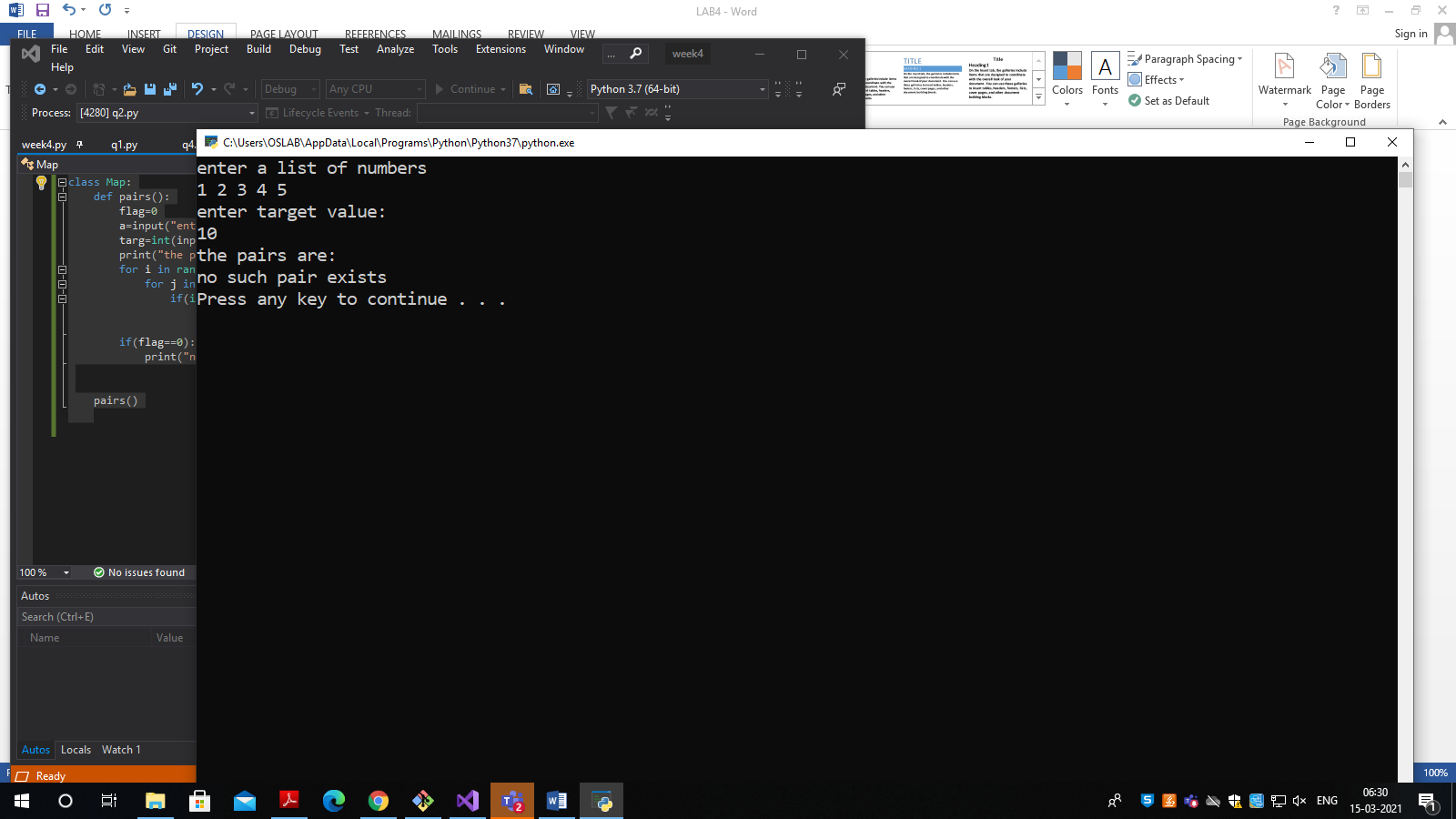
print("no such pair exists")

ob=Pair()

ob.pairs()

OUTPUT:





Q3)

class Poww:

def poww(self,a, b):

res=a\*\*b

return res

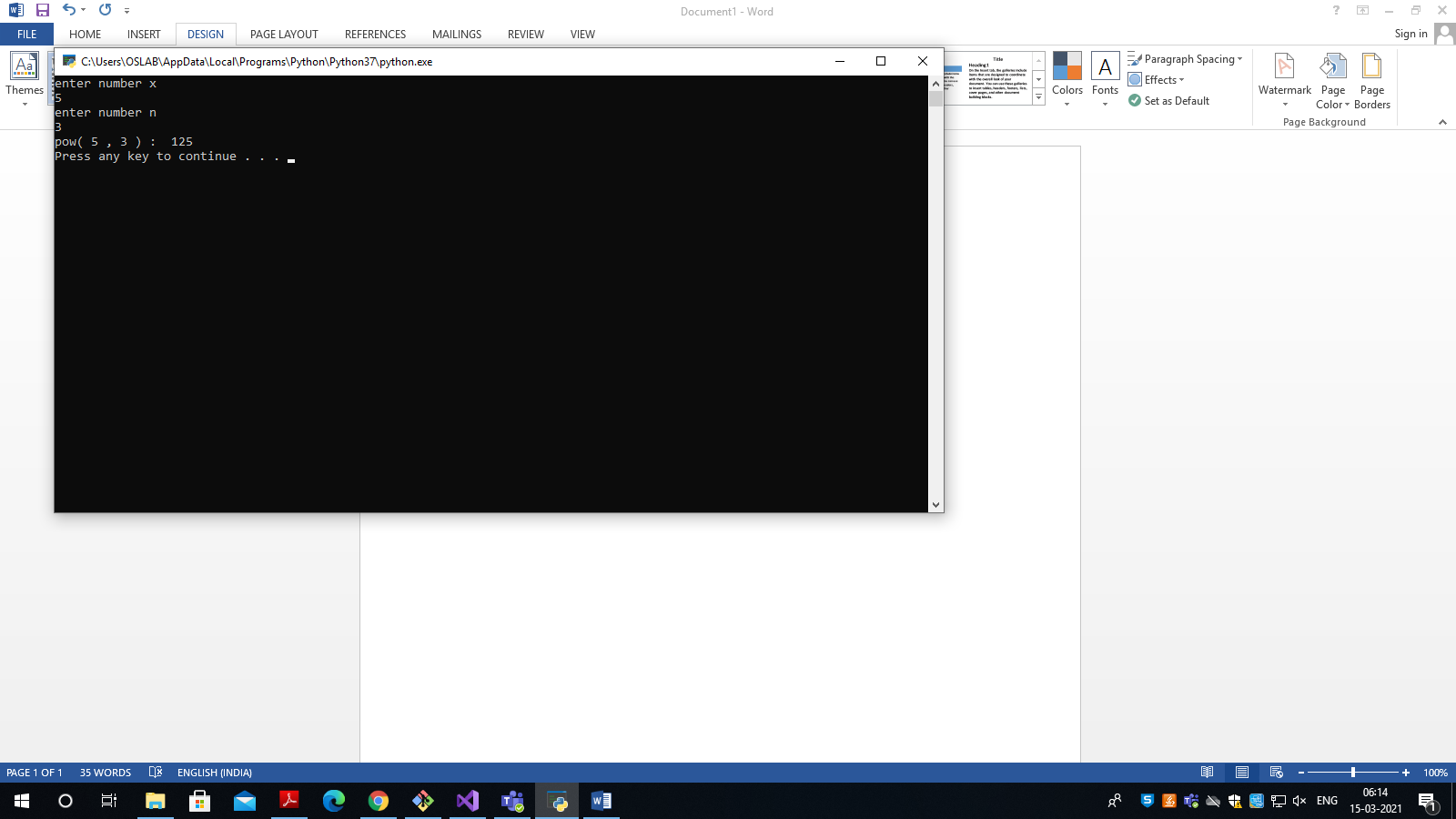
x=int(input("enter number x\n"))

n=int(input("enter number n\n"))

ob=Poww()

print("pow(",x,",",n,") : ",ob.poww(x,n))

OUTPUT:



Q4)

class Strings:

def get\_String(self):

a=input("enter a string:\n")

return a

def put\_String(self,a):

a=a.upper()

print("the uppercase string is: ",a)

ob=Strings()

ob.put\_String(ob.get\_String())

OUTPUT:

