Name : Khushi Panwar

Roll No : 2021334

SEC (Python) PRACTICAL ASSIGNEMENT : 22.09.2022

Computer Science (3rd Sem)

**Question 4 (From Practical List ) :**

**Solution 🡪**

def createSet():

num=input("\nEnter the number here : ")

lst=[int(x) for x in str(num)]

if (float(num)>=10):

setDigit=set()

for i in lst:

setDigit.add(i)

return setDigit

else:

print(" ERROR : INVALID NUMBER ! Try again ")

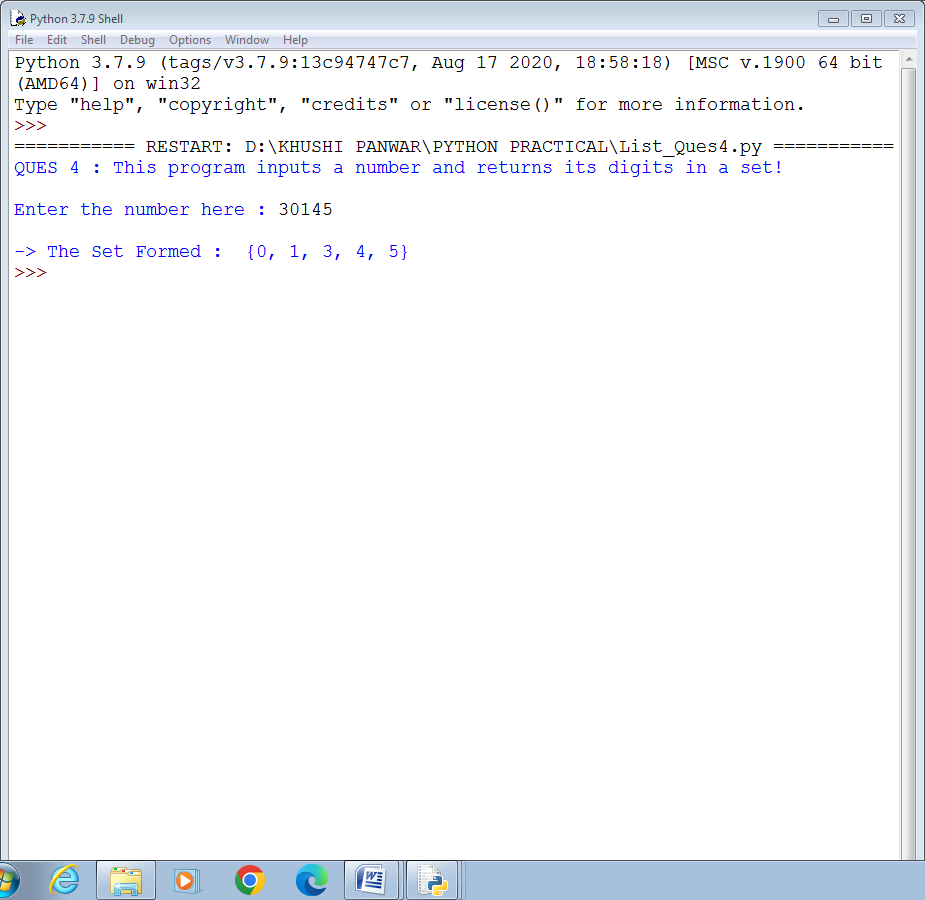
creatSet()

print("QUES 4 : This program inputs a number and returns its digits in a set!")

result=createSet()

print()

print("-> The Set Formed : ", result)



**Extra Ques : WAP that take input the number of rows and prints the following patterns in output!**

def pattern\_1(rows):

print("\n\t\t\t \*\*\*\*\*\*\*\*\* PATTERN A \*\*\*\*\*\*\*\* ")

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

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

print(j, "\t", end="")

print()

def pattern\_2(rows):

print("\n\t\t\t \*\*\*\*\*\*\*\*\* PATTERN B \*\*\*\*\*\*\*\* ")

k=flag1=flag2=0

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

for space in range(1,(rows-i)+1):

print(" ", end="")

flag1+=1

while k!=((2\*i)-1):

if flag1<=rows-1:

print(i+k, end=" ")

flag1+=1

else:

flag2+=1

print(i+k-(2\*flag2), end=" ")

k+=1

k=flag1=flag2=0

print()

def pattern\_3(rows):

print("\n\t\t\t \*\*\*\*\*\*\*\*\* PATTERN C \*\*\*\*\*\*\*\* ")

for i in range(rows, 0,-1):

for j in range(i,0,-1):

print(j, "\t", end="")

print()

def pattern\_4(rows):

print("\n\t\t\t \*\*\*\*\*\*\*\*\* PATTERN D \*\*\*\*\*\*\*\* ")

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

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

print(i, "\t", end="")

print()

def pattern\_5(rows):

print("\n\t\t\t \*\*\*\*\*\*\*\*\* PATTERN E \*\*\*\*\*\*\*\* ")

for i in range(0, rows):

print(" "\*i, end="")

for j in range(i+1,rows+1):

print(j," ", end="")

print()

def pattern\_6(rows):

print("\n\t\t\t \*\*\*\*\*\*\*\*\* PATTERN F \*\*\*\*\*\*\*\* ")

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

if (i==1 or i==rows):

print("\* "\*rows)

else:

print("\*"," "\*4," \*")

print("\n \t \*\* THIS PROGRAM GENERATES 6 DIFFERENT PATTERNS \*\* \n")

r=int(input("Enter the number of rows : "))

pattern\_1(r)

pattern\_2(r)

pattern\_3(r)

pattern\_4(r)

pattern\_5(r)

pattern\_6(r)

