**ASSIGNMNET 5 [21108048:ADITYA ANAND]**

#Q1

a= input("enter the statement: ")

x=a[::-1]

print(x)

#Q2

x=int(input("enter the no. "))

y=int(input("enter the lower limit "))

z=int(input("enter the upper limit "))

for i in range(y,z):

if i%x==0:

print(i)

#Q3

a=eval(input("Enter the first side length:"))

b=eval(input("Enter the second side length:"))

c= eval(input("Enter the third side lenth :"))

s=(a+b+c)/2

area =(s\*(s-a)\*(s-b)\*(s-c))\*\*0.5

if (a+b)>c:

if (b+c)>a:

if(c+a)>b:

print("area:",area)

else:

print("no area")

#Q4

n=5;

for i in range(n):

for j in range(i):

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

print('')

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

for j in range(i):

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

print('')

#Q5

rows = int(input("Enter Right Triangle Consecutive Alphabets Rows = "))

print("====The Right Triangle of Consecutive Alphabets Pattern====")

alphabet = 65

for i in range(rows):

for j in range(i + 1):

print('%c' %alphabet, end = ' ')

alphabet = alphabet + 1

print()

#Q6

lower\_value = int(input ( "Please, Enter the lowest Range value : " ))

upper\_value = int(input ( "Please, Enter the Upper Range Value : "))

print ("The Prime numbers in the range are: " )

for number in range (lower\_value, upper\_value + 1 ):

if number > 1 :

for i in range (2, number):

if (number % i)== 0:

break

else:

print (number)

#Q7

nl=[]

for x in range(1,500):

if (x%7==0) and (x%11==0):

nl.append(str(x))

print (','.join(nl))

#Q8

lst = []

for i in range(0, 10):

ele = int(input(" Enter the numbers: "))

lst.append(ele)

pn = []

nn = []

on = []

en = []

for i in range(0, 10):

if(i>=0):

pn.append(i)

if(i<0):

nn.append(i)

if(i%2==0):

on.append(i)

if(i%2!=0):

en.append(i)

print(pn)

print(nn)

print(on)

print(en)

def word\_count(lst):

counts = dict()

for word in lst:

if word in counts:

counts[word] += 1

else:

counts[word] = 1

return counts

print( word\_count(lst))

#Q9

def word\_count(str):

counts = dict()

words = str.split()

for word in words:

if word in counts:

counts[word] += 1

else:

counts[word] = 1

return counts

print( word\_count('Python is a case sensitive language.'))