#Question- 1

a= input("Enter a string: ")

b= len(a)

while b>0:

print(a[b-1], end='')

b=b-1

print("\n")

#-------------------------------------------------------------------------------

#Question- 2

lowerrange1= input("Enter the lower range: ")

lowerrange=int(lowerrange1)

upperrange1= input("Enter the upper range: ")

upperrange=int(upperrange1)

n= int(input("Enter the number: "))

#to keep the starting and end not included

i= lowerrange+1

while i<upperrange:

if(i%n==0):

print(i)

i=i+1

print("\n")

#-------------------------------------------------------------------------------

# Question- 3

import math

a=int(input("ENTER THE FIRST SIDE: "))

b=int(input("ENTER THE second SIDE: "))

c=int(input("ENTER THE third SIDE: "))

s=(a+b+c)/2

area= math.sqrt(s\*(s-a)\*(s-b)\*(s-c))

print('Area of the triangle: ',area)

print("\n")

#-------------------------------------------------------------------------------

# Question- 4

for i in range(1,6):

for j in range(0,i):

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

print()

for i in range(0,5):

j=4-i

while(j>0):

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

j=j-1

print()

print("\n")

#-------------------------------------------------------------------------------

# Question- 5

a1='ABCDEFGHIJKLMNOPQRSTUVWXYZ'

a=a1

n= int(input("Enter the number: "))

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

if len(a)<i:

a=a+a1

for j in range(0,i):

print(a[j], end='')

print()

a=a[i:]

print("\n")

#-------------------------------------------------------------------------------

# Question- 6

n=int(input("Enter the number till you want to check: "))

for i in range (2, n+1):

for j in range(2, i):

if i%j == 0:

break

else:

print(i)

print("\n")

#-------------------------------------------------------------------------------

# Question- 7

for i in range (1,500):

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

print(i)

print("\n")

#-------------------------------------------------------------------------------

# Question- 8

# creating an empty list

lst = []

# number of elements as input

print("Enter 10 Elements to add in a list")

n = 10

# iterating till the range

for i in range(0, n):

ele = int(input())

lst.append(ele) # adding the element

print("Entered list is: ", lst)

#Part-1

print("Positive numbers in List are: ")

#traversing

for i in lst:

# checking condition

if i >= 0:

print(i, end = " ")

print("\n")

#Part-2

print("Negative numbers in List are: ")

#traversing

for i in lst:

# checking condition

if i <= 0:

print(i, end = " ")

print("\n")

#Part-3

print("Odd numbers in List are: ")

#traversing

for i in lst:

# checking condition

if i %2 != 0:

print(i, end = " ")

print("\n")

#Part-4

print("Even numbers in List are: ")

#traversing

for i in lst:

# checking condition

if i %2 == 0:

print(i, end = " ")

print("\n")

#Part-5

print('Frequecy of respective nos are: ')

for i in lst:

if(type(i)==float): # so no repetition occurs

continue

n=0

j=0

while j<10:

if(lst[j]==i):

n=n+1

lst[j]=1.1 # an decimal no which would be used afterwards to distinguish it from others

j=j+1

print('Frequency of ',i,'is :',n)

print("\n")

#-------------------------------------------------------------------------------

# Question- 9

a= ['vishwas','vishwas','pulkit','soumik','soumik','pulkit','kundu','dheeraj']

for i in a:

g=0

n=0

if(i=='----'):

continue

for j in a:

if(i==j):

n=n+1

a[g]='----'

g=g+1

print(i," occured ",n," times")

#-------------------------------------------------------------------------------