#Question 1

a=int(input(“Enter input:”))

b=int(input(“Enter input:”))

c=int(input(“Enter input:”))

x= y =0

If(a==0):

Print(“Error”)

Else:

Discriminant = b \*\* 2 – 4 \* a \* c

If(discriminant<0):

Print(“Error”)

Else:

X=((-b+(discriminant \*\* 0.5)) / 2 \* a)

Y=((-b-(discriminant \*\* 0.5)) / 2 \* a)

Print(x)

Print(y)

#Question 2

Sentence=input(“Enter a string”).lower()

X=sentence.split(“ “)

Y=[]

For i in x:

If y.count(i)==0:

y.append(i)

print(i.title(),”-“, sentence.count(i))

#Question 3

a=input(“Enter a string:”)

Count1 = count2 = 0

For count in a:

If count.isdigit():

Count1+=1

If count.isalpha():

Count2+=1

Print(“Digits –“, count1)

Print(“Letters –“,count2)

#Question 4

Import re

A=(input(“Enter a string:”))

If int(len(a)<6 or len(a)<=12):

If (re.search(“[A-Z]”,a) and re.search(“[a-z]”,a) and re.search(“[0-9]”,a) and re.search(“[@#$]”,a)):

Print(“It is a valid password”)

Else:

Print(“It is an invalid password”)

Else:

Print(“Sorry!Enter correctly”)

#Question 5

Sentence = input(“Enter a string: “)

Target\_word = input(“Enter the searchable word:”)

Words = sentence.split()#to split the sentence

Positions = []#declare position

J= 0

For word in words:

If word == target\_word:

Positions.append(j)#to add the position

j += 1

If positions:

Print(positions)

Else:

Print(False)