***Question 1:***

a=int(input("Enter the coefficient of x^2 : "))

b=int(input("Enter the coefficient of x : "))

c=int(input("Enter the constant term : "))

m1=(-b+((b\*\*2)-4\*a\*c)\*\*0.5)/(2\*a) m2=(-b-((b\*\*2)-4\*a\*c)\*\*0.5)/(2\*a) print(f"The roots of the quadritic equation are {m1} and {m2} ")

***Question 2:***

n1=int(input("Enter your first marks : ")) n2=int(input("Enter your second marks : ")) n3=int(input("Enter your third marks : ")) n4=int(input("Enter your fourth marks : "))

n5=int(input("Enter your fifth marks : ")) sum=n1+n2+n3+n4+n5

print(f"Total marks obtained is {sum}") percentage=(sum/500)\*100 print(f"Percentage obtained by the student : {percentage} ") if percentage>=60 :

print("You got FIRST DIVISION !!!") elif percentage<60 and percentage>=50: print("You got SECOND DIVISION !!!") elif percentage<50 and percentage>=40: print("You got THIRD DIVISION !!!") elif percentage<40: print("You FAIL !!")

***Question 4 :***

number=int(input("Enter the numbers : ")) flag=0 flag2=0 count=1 for i in range(2,number,1):

if(number%i==0): if(number!=2):

flag2=1

count+=1 if(i%2!=0): flag=1 if(flag2==0):

print("Number is not in power of 2") elif (flag==1):

print("Number is not in power of 2 ") else:

print("Number is in the power of 2 ") print("The number of times divisible is {} ".format(count))

***Question 5:***

a=[] i=0 t=0 while i<5:

a.append(int(input("Enter the numbers : ")))

i+=1

n1=int(input("Enter the number to find in list : ")) for t in range(0,len(a)):

if n1==a[t]: print("The number you entered is present ")

break else:

print("The number is not present")

***Question 6:*** import math

r=int(input("Enter the radius : "))

area = math.pi\*(r\*\*2) print(f"Area of circle is {area}")

***Question 8:***

name=input("Enter your string : ") a=[] i=0

x=int(input("Enter the number to empty its position : ")) while i<len(name): t=name[i]

a.append(t) i+=1

a.pop(x) i=0 while i<=len(a)-1: print(a[i],end='') i+=1

***Question 9:***

name='my name is ansh goyal' a=[] i=0 while i<len(name): t=name[i]

a.append(t) i+=1 i=len(name)-1 while i>=0: print(a[i],end='') i-=1

***Question 10:*** j=1

while j <= 3: i = 1 while i<=2\*j-1: print("\* ",end="") i+=1 print(" ") j+=1 k=1 while k <= 2: a=1 while a<= 5-2\*k: print("\* ",end="") a+=1 print(" ") k+=1