EX 3- Questions on Decision making Statements

1. Calculate the Roots of equation Quadratic

Program:

a=int(input("Enter a value:"))

b=int(input("Enter b value:"))

c=int(input("Enter c value:"))

d=(b\*\*2)-(4\*a\*c)

print("The value of the discriminant is",d)

sol1=(-b+d\*\*0.5/2\*a)

sol2=(+b+d\*\*0.5/2\*a)

print("The roots of this quadratic equation is",sol1,"and",sol2)

Output:

Enter a value: 1

Enter b value: 5

Enter c value: 6

The value of the discriminant is 1

The roots of this quadratic equation is -4.5 and 5.5

1. Voting Eligibility

Program:

Age=int(input(“Enter your age:”))

if(Age<=18):

print(“You are Eligible for voting”)

else:

print(“You are not Eligible for voting”)

Output:

Enter your age: 20

You are Eligible for voting

1. Read a character. Check whether it is upper or lower

Program:

ch=input("Enter a char:")

if(ch<='Z' and ch>='A'):

print("You have entered a Uppercase alphabet")

elif(ch<='z' and ch>='a'):

print("You have entered a Lowercase alphabet")

else:

print("Invalid Input")

Ouput:

Enter a char: S

You have entered a Uppercase alphabet

1. Print the days of the week with (1- 7)

Program:

num=int(input(“Enter anumber:”))

if(num==1):

print(“Sunday”)

elif(num==2):

print(“Monday”)

elif(num==3):

print(“Tuesday”)

elif(num==4):

print(“Wednesday”)

elif(num==5):

print(“Thursday”)

elif(num==6):

print(“Friday”)

elif(num==7):

print(“Saturday”)

else:

print(“Enter Numbers between 1 to 7”)

Output:

Enter a number: 4

Wednesday

1. Smallest of three numbers

Program:

n1=int(input(“Enter first number:”))

n2=int(input(“Enter second number:”))

n3=int(input(“Enter third number:”))

if(n1<n2 and n1<n3):

print(“Smallest number is”,n1)

elif(n2<n1 and n2<n3):

print(“Smallest number is”,n2)

elif(n3<n1 and n3<n2):

print(“Smallest number is”,n3)

else:

print(“The Entered Numbers are Equal”)

Output:

Enter first number: 12

Enter second number: 24

Enter third number: 36

Smallest number is 36

1. Read a Character. If it is Lowercase , Print \*\* else print U

Program:

ch=input(“Enter a character:”)

if(ch<=’z’ and ch>=’a’):

ch=\*\*

print(ch)

else:

ch=’U’

print(ch)

Output:

Enter a character: m

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