GROUP:5

EXPT.NO.3(A) ROOTS OF A QUADRATIC EQUATION

AIM:

To write a program to find the roots of a quadratic equation.

CODE:

import cmath

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

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

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

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

sol1=(-b-cmath.sqrt(d))/(2\*a)

sol2=(-b+cmath.sqrt(d))/(2\*a)

print("The solutions are {0} and {1}".format(sol1,sol2))

SAMPLE OUTPUT:

Enter a value:1

Enter a value:5

Enter a value:6

The solutions are (-2+0j) and (-3+0j)

RESULT:

The program to find the roots of a quadratic equation is written and executed.

EXPT.NO.3(B) UPPERCASE OR LOWERCASE

AIM:

To write a program to check whether the entered character is a uppercase or lowercase letter.

CODE:

ch=input("Enter a character:")

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

print("you entered uppercase letter")

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

print("you entered lowercase letter")

else:

print("enter a valid character")

SAMPLE OUTPUT:

Enter a character:d

you entered lowercase letter

RESULT:

The program to check the uppercase or lowercase letter is written and executed.

EXPT.NO.3(C) VOTERS ELIGIBILITY

AIM:

To write a program to check whether a person is eligible for voting or not.

CODE:

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

if(age>=18):

print("your age",age,"is eligible for voting")

else:

print("your age",age,"is not eligible for voting")

SAMPLE OUTPUT:

Enter a age:26

your age 26 is eligible for voting

RESULT:

The program to check whether a person is eligible for voting or not is written and executed.

GROUP:6

EXPT.NO.3(D) DAYS OF THE WEEK

AIM:

To write a program to print the days of the week.

CODE:

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

if(a==1):

print("1-SUNDAY")

elif(a==2):

print("2-MONDAY")

elif(a==3):

print("3-TUESDAY")

elif(a==4):

print("4-WEDNESDAY")

elif(a==5):

print("5-THURSDAY")

elif(a==6):

print("6-FRIDAY")

elif(a==7):

print("7-SATURDAY")

else:

print("Enter a valid days of the week")

SAMPLE OUTPUT:

Enter a number:4

4-WEDNESDAY

RESULT:

The program to print the days of the week is written and executed.

EXPT.NO.3(E) SMALLEST OF THREE NUMBERS

AIM:

To write a program to find the smallest of three numbers.

CODE:

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

b=int(input("Enter a number:"))

c=int(input("Enter a number:"))

if(a<b and a<c):

print(a,"is the smallest number")

elif(b<c):

print(b,"is the smallest number")

else:

print(c,"is the smallest number")

SAMPLE OUTPUT:

Enter a number:5

Enter a number:2

Enter a number:7

2 is the smallest number

RESULT:

The program to find the smallest of three numbers is written and executed.

EXPT.NO.3(F) LOWERCASE OR UPPERCASE

AIM:

To write a program to print \*\* and U for lowercase and uppercase letter.

CODE:

ch=input("Enter a character:")

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

ch=’\*\*’

print(ch)

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

ch=’U’

print(ch)

else:

print("Enter a valid character input")

SAMPLE OUTPUT:

Enter a character:b

\*\*

RESULT:

The program to check whether the entered character is uppercase or lowercase is written and executed.