Program:

#Voter eligibility

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

if(age>=18):

print("Eligible")

else:

print("Not eligible")

Output:

Enter the age:20

Eligible

>>>

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#Read a character whether it is a upper or lower

Program:

ch=input("Enter a character:")

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

print("You entered upper case")

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

print("You entered lower case")

Output:

Enter a character:S

You entered upper case

>>>

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#Days of the week

Program:

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

if(n==1):

print("Sunday")

elif(n==2):

print("Monday")

elif(n==3):

print("Tuesday")

elif(n==4):

print("Wednesday")

elif(n==5):

print("Thursday")

elif(n==6):

print("Friday")

elif(n==7):

print("Saturday")

else:

print("You entered a valid input")

Output:

Enter the number:2

Monday

>>>

#Smallest of three numbers

Program:

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

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

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

if(a<b and a<c):

print("a is smaller")

elif(b<a and b<c):

print("b is smaller")

else:

print("c is smaller")

Output:

Enter the value of a:200

Enter the value of b:600

Enter the value of c:1000

a is smaller

>>>

#Character program

Program:

ch=input("Enter a character:")

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

ch="\*\*"

print(ch)

else:

ch="U"

print(ch)

Output:

Enter a character:S

U

>>>

#Calculate the roots of quadratic eqn

Program:

import cmath

a=float(input("Enter a:"))

b=float(input("Enter b:"))

c=float(input("Enter c:"))

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

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

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

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

Output:

Enter a:5

Enter b:8

Enter c:9

The solution are (-0.8-1.0770329614269007j) and (-0.8+1.0770329614269007j)

>>>

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