# Read a character, check whether it is upper or lower

**Program:**

ch=input("Enter a character : ")

print("The given input is : ",ch)

if(ch.isupper()):

print("\nThe given character is in Uppercase ")

elif(ch.islower()):

print("\nThe given character is in lowercase ")

else:

print("\nThe given input is not a character")

**Output:**

Enter a character: V

The given input is: V

The given character is in Uppercase

>>>

Enter a character: i

The given input is: i

The given character is in lowercase

>>>

Enter a character: 7

The given input is: 7

The given input is not a character

>>>

**Method2:**

**Program:**

ch=input("Enter a character : ")

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

print("\nThe given Character ",ch," is Uppercase")

else:

print("\nThe given Character ",ch," is lowercase")

**Output:**

>>>

Enter a character: A

The given Character A is Uppercase

>>>

Enter a character: v

The given Character v is lowercase

>>>

# Calculate the Roots of Quadratic equation

**Program:**

a=float(input("Enter the value of co-effecient of a in the quadratic equation(with sign) : "))

b=float(input("Enter the value of co-effecient of b in the quadratic equation(with sign) : "))

c=float(input("Enter the value of co-effecient of c in the quadratic equation(with sign) : "))

d=b\*b-4\*a\*c

if (d>0):

r1=((-b)-(d)\*\*1/2)/2\*a

r2=((-b)+(d)\*\*1/2)/2\*a

print("\nThe roots are real and unequal")

print(r1,',',r2)

elif (d==0):

r1=(-b)/2\*a

print("\nThe roots are real and equal")

print(r1)

else:

print("\nNo real roots")

**Output:**

>>>

Enter the value of co-efficient of a in the quadratic equation (with sign): 1

Enter the value of co-efficient of b in the quadratic equation (with sign): -4

Enter the value of co-efficient of c in the quadratic equation (with sign): 4

The roots are real and equal

2.0

>>>

Enter the value of co-efficient of a in the quadratic equation (with sign): 2

Enter the value of co-efficient of b in the quadratic equation (with sign): -8

Enter the value of co-efficient of c in the quadratic equation (with sign): 3

The roots are real and unequal

-12.0 , 28.0

>>>

Enter the value of co-efficient of a in the quadratic equation (with sign): 1

Enter the value of co-efficient of b in the quadratic equation (with sign): -3

Enter the value of co-efficient of c in the quadratic equation (with sign): 4

No real roots

>>>

# Voting Eligibility

**Program:**

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

if(age>=18):

print("\nYour age is ",age,"\nYou are eligible for voting.")

else:

print("\nYour age is ",age,"\nYou are not eligible for voting.")

**Output:**

>>>

Enter your age: 18

Your age is 18

You are eligible for voting.

>>>

Enter your age: 16

Your age is 16

You are not eligible for voting.

>>>

# Print the days of the week with (1- 7) 1-SUN, 2-MON......7- SAT

**Program:**

print("The days of the week")

print("\n")

n=1

w=("Sunday","Monday","Tuesday","Wednesday","Thursday","Friday","Saturday")

for i in w:

print(n,'.',i)

n=n+1

d=int(input("\nEnter the number of day you need to access: "))

if(d==1):

print("\nThe order of the day is Sunday")

elif(d==2):

print("\nThe order of the day is Monday")

elif(d==3):

print("\nThe order of the day is Tuesday")

elif(d==4):

print("\nThe order of the day is Wednesday")

elif(d==5):

print("\nThe order of the day is Thursday")

elif(d==6):

print("\nThe order of the day is Friday")

elif(d==7):

print("\nThe order of the day is Saturday")

**Output:**

>>>

The days of the week

1. Sunday

2. Monday

3. Tuesday

4. Wednesday

5. Thursday

6. Friday

7. Saturday

Enter the number of day you need to access: 1

The order of the day is Sunday

>>>

# 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: "))

print("\nThe given values of A,B,C are ",a,b,c)

if(a<b and a<c):

print("\nThe smallest of three number is A ",a)

elif(b<a and b<c):

print("\nThe smallest of three number is B ",b)

elif(c<a and c<b):

print("\nThe smallest of three number is C ",c)

**Output:**

>>>

Enter the value of A: 7

Enter the value of B: 61

Enter the value of C: 16

The given values of A, B, C are 7 61 16

The smallest of three number is A 7

>>>

Enter the value of A: 61

Enter the value of B: 7

Enter the value of C: 16

The given values of A, B, C are 61 7 16

The smallest of three number is B 7

>>>

Enter the value of A: 61

Enter the value of B: 16

Enter the value of C: 7

The given values of A, B, C are 61 16 7

The smallest of three number is C 7

>>>

# Read a Character. If it is Lower, Print \*\* else print U

**Program:**

x=input("Enter a Character : ")

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

print("\nThe given Character ",x," is in Lowercase","\t\*\*")

else:

print("\nThe given Character ",x," is in Uppercase","\tU")

**Output:**

>>>

Enter a Character: v

The given Character v is in Lowercase \*\*

>>>

Enter a Character: A

The given Character A is in Uppercase U

>>>