PROGRAM CODE:

#lower case to uppercase and vice versa

ch=input("Enter character: ")

c=ord(ch)

if c>=65 and c<=90:

print("Uppercase to lowercase")

c=c+32

char=chr(c)

print("Character is now:",char)

elif c>=97 and c<=122:

print("Lowercase to uppercase")

c=c-32

char=chr(c)

print("Character is now:",char)

else:

print("Not an alphabet")

OUTPUT:

Enter character: a

Lowercase to uppercase

Character is now: A

Enter character: H

Uppercase to lowercase

Character is now: h

Enter character: 3

Not an alphabet

PROGRAM CODE:

#positive, negative or zero

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

if n>0:

print("Positive, incrementing by 1:",n+1)

elif n<0:

print("Negative, decrementing by 1:",n-1)

else:

print("The number is zero")

OUTPUT:

Enter number: 5

Positive, incrementing by 1: 6

Enter number: -8

Negative, decrementing by 1: -9

Enter number: 0

The number is zero

PROGRAM CODE:

#leap year

y=int(input("Enter year: "))

if y%4==0:

print("Leap year")

else:

print("Not a leap year")

OUTPUT:

Enter year: 2004

Leap year

Enter year: 2017

Not a leap year

PROGRAM CODE:

#Simple calculator

print("1.Add")

print("2.Subtract")

print("3.Multiply")

print("4.Divide")

ch=input("Enter choice: ")

if ch==('1' or '2' or '3' or '4'):

n1=int(input("Enter first number: "))

n2=int(input("Enter second number: "))

if ch=='1':

print(n1+n2)

elif ch=='2':

print(n1-n2)

elif ch=='3':

print(n1\*n2)

elif ch=='4':

print(n1/n2)

else:

print("Operation can't be performed")

OUTPUT:

1.Add

2.Subtract

3.Multiply

4.Divide

Enter choice: 1

Enter first number: 45

Enter second number: 30

75

1.Add

2.Subtract

3.Multiply

4.Divide

Enter choice: 2

Enter first number: 16

Enter second number: 8

8

1.Add

2.Subtract

3.Multiply

4.Divide

Enter choice: 3

Enter first number: 6

Enter second number: 8

48

1.Add

2.Subtract

3.Multiply

4.Divide

Enter choice: 4

Enter first number: 45

Enter second number: 9

5.0

1.Add

2.Subtract

3.Multiply

4.Divide

Enter choice: 7

Operation can't be performed

PROGRAM CODE:

#Even or odd

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

if n%2==0:

print(n,’is an even number’)

else:

print(n,’is an odd number’)

OUTPUT:

enter no 3

3 is a odd no

enter no 4

4 is a even no

PROGRAM CODE:

#Grade

M1=int(input("Enter marks obtained in English: "))

M2=int(input("Enter marks obtained in Maths: "))

M3=int(input("Enter marks obtained in Science: "))

M4=int(input("Enter marks obtained in Tamil: "))

A=((M1+M2+M3+M4)/4)

if A>=90:

G='A'

elif A>=80:

G='B'

elif A>=70:

G='C'

elif A>=60:

G='D'

else:

G='E'

print("Grade is:", G)

OUTPUT:

Enter marks obtained in English: 90

Enter marks obtained in Maths: 96

Enter marks obtained in Science: 94

Enter marks obtained in Tamil: 85

Grade is: A

PROGRAM CODE:

#Largest of two number

n1=int(input("Enter number 1: "))

n2=int(input("Enter number 2: "))

if n1>n2:

l=n1

else:

l=n2

print("Largest number:",l)

OUTPUT:

Enter number 1: 87

Enter number 2: 79

Largest number: 87

PROGRAM CODE:

#Largest of three numbers

num1 = int(input("Enter first number: "))

num2 = int(input("Enter second number: "))

num3 = int(input("Enter third number: "))

if (num1 > num2) and (num1 > num3):

largest = num1

elif (num2 >= num1) and (num2 >= num3):

largest = num2

else:

largest = num3

print("The largest number between",num1,",",num2,"and",num3,"is",largest)

OUTPUT:

Enter first number: 123

Enter second number: 678

Enter third number: 3056

The largest number between 123 , 678 and 3056 is 3056

PROGRAM CODE:

#lowercase ,uppercase or digit

ch=input("Enter character: ")

c=ord(ch)

if 65<=c<=90:

print("The character is in uppercase")

elif 97<=c<=122:

print("The character is in lowercase")

else:

print("The character is a digit")

OUTPUT:

Enter character: h

The character is in lowercase

Enter character: D

The character is in uppercase

Enter character: 7

The character is a digit

PROGRAM CODE:

#eligiblitity to vote

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

if age>=18:

print("Eligible to vote")

else:

print("Not eligible to vote")

OUTPUT:

Enter age:56

Eligible to vote

Enter age:14

Not eligible to vote