***EXCHANGING OF THE VALUES:-***

INPUT(1):-

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

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

temp=0

print("The value before swapping:",a," ",b)

temp=a

a=b

b=temp

print("The value after swapping:",a," ",b)

OUTPUT(1):-

Enter number 1:34

Enter number 2:45

The value before swapping: 34 45

The value after swapping: 45 34

INPUT(2):-

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

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

print("The value before swapping:",a," ",b)

a,b=b,a

print("The value after swapping:",a," ",b)

OUTPUT(2):-

Enter number 1:34

Enter number 2:23

The value before swapping: 34 23

The value after swapping: 23 34

INPUT(3):-

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

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

print("The value before swapping:",a," ",b)

a=a+b

b=a-b

a=a-b

print("The value after swapping:",a," ",b)

OUTPUT(3):-

Enter number 1:56

Enter number 2:34

The value before swapping: 56 34

The value after swapping: 90 34

INPUT(4):-

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

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

print("The value before swapping:",a," ",b)

a=a^b

b=a^b

a=a^b

print("The value after swapping:",a," ",b)

OUTPUT:-

Enter number 1:67

Enter number 2:34

The value before swapping: 67 34

The value after swapping: 34 67

CIRCULATING THE LIST OF VALUES

INPUT(1):-

n=int(input("Enter the number of values in the list:"))

I=[]

for i in range(0,n):

x=int(input("Enter the value:"))

I.append(x)

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

for i in range(0,a):

b=I.pop(0)

I.append(b)

print("The circulate list is:",i)

OUTPUT(1):-

Enter the number of values in the list:3

Enter the value:1

Enter the value:5

Enter the value:8

Enter number of rotation:2

The circulate list is: [5, 8, 1]

The circulate list is: [8, 1, 5]

INPUT 2:

n=int(input("Enter the number of values in the list:"))

I=[]

for i in range(0,n):

x=int(input("Enter the value:"))

I.append(x)

print("Circulating the list....")

a=int(input("Enter the number of rotation:"))

for i in range(0,a):

I=I[1:]+I[:1]

print("The circulate list is:",I)

OUTPUT 2:

Enter the number of values in the list:3

Enter the value:1

Enter the value:2

Enter the value:4

Circulating the list....

Enter the number of rotation:2

The circulate list is: [2, 4, 1]

The circulate list is: [4, 1, 2]

DISTANCE BETWEEN TWO POINTS

INPUT:

print("To find the distance between two points")

x1=int(input("Enter x1 value:"))

y1=int(input("Enter y1 value:"))

x2=int(input("Enter x2 value:"))

y2=int(input("Enter y2 value:"))

D=(pow(x2-x1,2)+pow(y2-y1,2))\*\*1/2

print("The distance between the points is:",D)

OUTPUT:

To find the distance between two points

Enter x1 value:34

Enter y1 value:32

Enter x2 value:22

Enter y2 value:21

The distance between the points is: 132.5

FAHRENHEIT INTO CELSIUS

INPUT:

a=int(input("Enter faherenheit value F in degrees:"))

c=(a-32)\*5/9

print("The celsius value is:",c)

OUTPUT:

Enter faherenheit value F in degrees:28

The celsius value is: -2.2222222222222223

LEAP YEAR OR NOT

INPUT:

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

if((y%4==0)or(y%400==0)):

print("leap year")

else:

print("not leap year")

OUTPUT:

Enter number:2020

leap year

SIMPLE INTEREST

INPUT:

p=float(input(“Enter the principle balance amount P:”))

r=float(input(“Enter the annual interest rate r:”))

t=float(input(“Enter the time in years t:”))

A=(p\*r\*t)/100

Print(“The annual interest rate is A:”,A)

OUTPUT:

Enter the principle balance amount P: 10000

Enter the annual interest rate r: 5.6

Enter the time in years t: 5

The annual interest rate is A: 2800.000