EX 2

Apple Problem :

INPUT:

Weight= input("enter the no of kgs of apple: "))  
rate= input("enter the rate of 1kg of apple: "))  
tot=Weight\*rate  
print(tot)

OUTPUT:

Enter the no of kgs of apple: 5

Enter the rate of 1 kg of apple: 6

30.0

SIMPLE INTREST PROBLEM

PROGRAM:

p=int(input("enter the principal amt"))  
r=int(input("enter the rate:"))  
t=int(input("enter the time"))  
si=p\*t\*r/100

Print(“the Simple interest is:”,si)

OUTPUT:

Enter the principal amt: 500

Enter the time: 6

Enter the rate: 5

The Simple interest is: 150.0

DISTANCE BETWEEN 2 POINTS:

PROGRAM:

x1=int(input("enter x1:"))  
x2= int (input("enter x2:"))  
y1=int(input("enter y1:"))  
y2= int (input("enter y2:"))  
d=(((x2-x1)\*\*2+(y2-y1)\*\*2)\*\*(1/2))

Print(“The distance between the points is:”,d)

OUTPUT:

Enter x1: 4

Enter x2: 6

Enter y1: 0

Enter y2; 6

The distance between the points is: 6.324553320336759

BOOK STALL PROBLEM

n1=int(input("enter the price of B1 :"))  
n2=int(input("enter the price of B2 :"))  
n3=int(input("enter the price of B3 :"))  
n4=int(input("enter the price of B4 :"))  
n5=int(input("enter the price of B5 :"))  
Tot= n1+n2+n3+n4+n5  
print("Total price of the books :",tot)  
Dis=0.05\*tot  
Totamt=Tot-dis  
print("Final price:”,Totamt)

OUTPUT:

enter the price of B1 : 20

enter the price of B1 : 20

enter the price of B1 : 20

enter the price of B1 : 40

enter the price of B1 : 10

Total price of books : 110

Final price: 104.5

ARITHMETIC OPERATIONS :

PROGRAM:

a=int(input("enter A:"))  
b=int(input("enter B:"))  
s=a+b  
f=a-b  
c=a/b  
d=a\*b  
print("sum=",s)  
print("diff=",f)  
print("product=",d)  
print("divide=",c)

OUTPUT:  
  
Enter A: 50

Enter B: 10

Sum=60

Diff=40

Product=500

Divide=5

CIRCULATING NUMBERS

PROGRAM:

s=int(input("Enter a the Values in the List :"))

list=[]

for i in range(0,s):

element=int(input("Enter the Value :"))

list.append(element)

print("Circulating the list")

for i in range(0,s):

element\_deleted=list.pop(0)

list.append(element\_deleted)

print(list)

OUTPUT:

Enter a the Values in the List :3

Enter the Value :5

Enter the Value :9

Enter the Value :2

Cieculating the elements of the list [5,9,2]

[9,2,5]

[2,5,9]

[5,9,2]

TEMPARATURE CONVERSION :

PROGRAM:

F = int (input("enter the Fahrenheit :"))  
C = ((Fahrenheit-32)\*5)/9.  
print("Temperature in Celsius is: ",C);\

OUTPUT:

Enter the Fahrenheit: 50

Temperature in Celsius is: 10

SWAPPING

METHOD 1:

PROGRAM

x=int(input("enter value of x:"))  
y= int(input("enter value of y:"))  
print(“Before Swapping:”,x,y)

c=x  
x=y  
y=c  
print(“After swapping:”,x,y)

OUTPUT:

Enter value of x: 5

Enter value of y: 6

Before Swapping 5,6

After Swapping 6,5

SWAPPING

METHOD 2

PROGRAM:

s = 10`

t = 20

print("The values before Swapping : ",s,t)

s, t = s, t

print("The values after Swapping : ",s,t)

OUTPUT:

The values before Swapping: 10 20

The values after Swapping: 20 10

SWAPPING

METHOD 3

PROGRAM:

x = 35

y = 15

print(“Values before Swap",x,y)

x = x + y

y = x - y

x = x - y

print("Values after Swap",x,y)

OUTPUT:

Values before swap 35 15

Values after swap 15 35