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]
```

CIRCULATING NUMBERS

METHOD 2:

```
PROGRAM:

def circulate(c,n):

for i in range (1,n+1):

d=c[i:]+c[:i]

print("Circulate","=",d)

return c=[178,289,324,448,570,698,188,842,956,106]

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

circulate (c,n)
```

OUTPUT:

Enter n:6

Circulate = [289, 324, 448, 570, 698, 188, 842, 956, 106, 178]

Circulate = [324, 448, 570, 698, 188, 842, 956, 106, 178, 289]

Circulate = [448, 570, 698, 188, 842, 956, 106, 178, 289, 324]

Circulate = [570, 698, 188, 842, 956, 106, 178, 289, 324, 448]

Circulate = [698, 188, 842, 956, 106, 178, 289, 324, 448, 570]

Circulate = [188, 842, 956, 106, 178, 289, 324, 448, 570, 698]

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

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

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

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

Temparature in celsius: 10