In [2]:
```
#Prgm1
#03/08/2022
#Input:

l=int(input("Length : "))

b=int(input("Breadth : "))


#Area:

a=l*b


#Perimeter:

p=2*(l+b)


#Output:

print()

print("Length : ",l)

print("Breath : ",b)

print()

print("Area of the Rectangle : ",a)

print("Perimeter of the Rectangle : ",p)
```

```
Length : 5
Breadth : 6

Length :  5
Breath :  6

Area of the Rectangle :  30
Perimeter of the Rectangle :  22
```

In [3]:
```
#Prgm2
#03/08/2022
#Input:

n=input("Name : ")

s=int(input("Basic Salary : "))

t=0


#check:

#If Basic is less than Rs. 1,50,000/-, then Tax = 0.


if(s<150000):

  t=s*0



#If Basic is from Rs.1,50,000/- to Rs. 3,00,000/-, then tax is 20%.


elif(s>150000) and (s<300000):

  t=(s/100)*20



#If Basic is greater than Rs.3,00,000/-, then tax is 30%.

elif(s>300000):

  t=(s/100)*30


#Output:

print()

print("Name : ",n)

print("Annual Income for ",n," is : ",s*12)

print("Tax for",n," is : ",t)
```

```
Name : Hari
Basic Salary : 200000

Name :  Hari
Annual Income for  Hari  is :  2400000
Tax for Hari  is :  40000.0
```

In [4]:
```
#Prgm3
#03/08/2022
#Inputs:

p1=int(input("Product 1 price : "))

q1=int(input('Quantity of Product 1 : '))

p2=int(input("Product 2 price : "))

q2=int(input('Quantity of Product 2 : '))

p3=int(input("Product 3 price : "))

q3=int(input('Quantity of Product 3 : '))

d=0


#Total amount:

at=(p1*q1)+(p2*q2)+(p3*q3)


#check:

#Amount > Rs. 2000/- : 20% discount:

if at>2000:

    d=at*0.2

#Amount between Rs. 1500/- to Rs.1999/- :15% discount:

elif (at>=1500) and (at<=1999):

    d=at*0.15

#Amount between Rs. 1000/- to Rs.1499/- 8 % discount:

elif (at>=1000) and (at<=1499):

    d=at*0.08


#Final amount:

f=at-d


#Output:

print()

print('\t','\t','\t',"BILLING DETAILS...")
```

```
print()

print("Price Of Product 1",'\t',p1,'\t',"Quantity",'\t',q1,'\t\t',"Total Pric
e:",'\t',(p1*q1))

print("Price Of Product 2",'\t',p2,'\t',"Quantity",'\t',q2,'\t\t',"Total Pric
e:",'\t',(p2*q2))

print("Price Of Product 3",'\t',p3,'\t',"Quantity",'\t',q3,'\t\t',"Total Pric
e:",'\t',(p3*q3))

print()

print("Total Amount",at)

print("Discount Amount",d)

print()

print("Final Amount",f)
```

```
Product 1 price : 50
Quantity of Product 1 : 5
Product 2 price : 100
Quantity of Product 2 : 3
Product 3 price : 250
Quantity of Product 3 : 10

                        BILLING DETAILS...

Price Of Product 1      50      Quantity        5               Total Price:
250
Price Of Product 2      100     Quantity        3               Total Price:
300
Price Of Product 3      250     Quantity        10              Total Price:
2500

Total Amount 3050
Discount Amount 610.0

Final Amount 2440.0
```

In [5]:
```
#Prgm4
#03/08/2022
#Input:

#x1 value:

x1=(11+31+23+8+7+5)/((1-(1/2)-(1/20)))

print('x1 = ',x1)

print()


#x2 value:

x2=(((10*8)+8-((7//5)%(5**4)))&3)|(2<<1)

print('x2 = ',x2)
```

```
x1 =  188.88888888888889

x2 =  7
```

In [6]:
```
#Prgm5
#03/08/2022
#Inputs:

n=input("Name: ")

m1=int(input("1st Mark: "))

m2=int(input("2nd Mark: "))

m3=int(input("3rd Mark: "))

tm=m1+m2+m3

avg=tm/3

print()


#Total and AVG:

print("Total=",tm)

print("Average=",avg)


#check:

#Class I – above 80%:

if(avg>80):

    print("Congratulations ",n," you secured ",tm," and your class is I")

#Class II – 60% to 80%:

elif(avg>=60) and (avg<=80):

    print("Congratulations ",n," you secured ",tm," and your class is II")

#Pass class – 40% to 59% and Fail otherwise:

elif(avg>40) and (avg<60):

    print("Congratulations ",n," you secured ",tm," and your class is pass")

else:

    print("SORRY you got Fail")
```

```
Name: Hari
1st Mark: 90
2nd Mark: 80
3rd Mark: 85

Total= 255
Average= 85.0
Congratulations  Hari  you secured  255  and your class is I
```

In [8]:
```
#Prgm6
#03/08/2022
#Input:

a=int(input("Value : "))


#check:


if (a)==0:

    print("The Given Value is 'ZERO'")

elif (a)>0:

    print("The Given Value is 'POSITIVE'")

else:

    print("The Given Value is 'NEGATIVE'")



if(a%2==0):

    print("The Given Value is 'EVEN'")

elif(a%2!=0):
    print("The Given Value is 'ODD'")


if (a)>=65 and (a)<=90:

    print("The Given ASCII Value is 'UPPER_CASE'")

elif (a)>=97 and (a)<=122:

    print("The Given ASCII Value is 'LOWER_CASE'")
```

```
Value : 320
The Given Value is 'POSITIVE'
The Given Value is 'EVEN'
```