In [1]:
```
#pgm No.:01
#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 : 20
Breadth : 11

Length :  20
Breath :  11

Area of the Rectangle :  220
Perimeter of the Rectangle :  62
```

In [ ]:

In [1]:
```
#Pgm No.:03
#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 : 300
Quantity of Product 1 : 2
Product 2 price : 50
Quantity of Product 2 : 9
Product 3 price : 500
Quantity of Product 3 : 2

                        BILLING DETAILS...

Price Of Product 1      300     Quantity        2               Total Price:
600
Price Of Product 2      50      Quantity        9               Total Price:
450
Price Of Product 3      500     Quantity        2               Total Price:
1000

Total Amount 2050
Discount Amount 410.0

Final Amount 1640.0
```

In [1]:
```
#Pgm No.:04
#03/08/2022

#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 [1]:
```
#pgm No.:06
#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 : 33
The Given Value is 'POSITIVE'
The Given Value is 'ODD'
```

In [1]:
```
#pgm No.:02
#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 : Arul
Basic Salary : 200000

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

In [1]:
```
#Pgm No.:05
#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: Arul
1st Mark: 90
2nd Mark: 85
3rd Mark: 92

Total= 267
Average= 89.0
Congratulations  Arul  you secured  267  and your class is I
```