

In [8]:

```
#S.SURIYA
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#LAB EX 1

#area and perimeter of rectangle

length=int(input('Enter a number:'))
breadth=int(input('Enter a number:'))
area=length*breadth
perimeter=2*(length+breadth)
print('area=',area)
print('perimeter=',perimeter)
```

```
Enter a number:10
Enter a number:5
area= 50
perimeter= 30
```

In [1]:

```
#income tax calculation 1

name=input('Enter the name:')
basicsalary=int(input('Enter the amount:'))
if(basicsalary<150000):
    tax=0
elif(basicsalary>150000) and (basicsalary<300000):
    tax=basicsalary*0.2
elif(basicsalary>300000):
    tax=basicsalary*0.3
else:
    print('you need not to pay incometax')
print('name:',name)
print('basicsalary',basicsalary)
print('tax',tax)
```

```
Enter the name:suriya
Enter the amount:100000
name: suriya
basicsalary 100000
tax 0
```

In [3]:

```
#income tax calculation 2

name=input('Enter the name:')
basicsalary=int(input('Enter the amount:'))
if(basicsalary<150000):
    tax=0
elif(basicsalary>150000) and (basicsalary<300000):
    tax=basicsalary*0.2
elif(basicsalary>300000):
    tax=basicsalary*0.3
else:
    print('you need not to pay incometax')
print('name:',name)
print('basicsalary',basicsalary)
print('tax',tax)
```

```
Enter the name:suriya
Enter the amount:250000
name: suriya
basicsalary 250000
tax 50000.0
```

In [1]:

```
#income tax calculation 3

name=input('Enter the name:')
basicsalary=int(input('Enter the amount:'))
if(basicsalary<150000):
    tax=0
elif(basicsalary>150000) and (basicsalary<300000):
    tax=basicsalary*0.2
elif(basicsalary>300000):
    tax=basicsalary*0.3
else:
    print('you need not to pay incometax')
print('name:',name)
print('basicsalary',basicsalary)
print('tax',tax)
```

```
Enter the name:suriya
Enter the amount:350000
name: suriya
basicsalary 350000
tax 105000.0
```

In [2]:

```
#discount sale 1
n1=input('enter 1st product name')
n2=input('enter 2nd product name')
n3=input('enter 3rd product name')
a=input('enter the 1st product cost:')
b=input('enter the 2nd product cost:')
c=input('enter the 3rd product cost:')
a1=input('enter 1st product quantity')
b1=input('enter 2nd product quantity')
c1=input('enter 3rd product quantity')
p1=int(a)*int(a1)
p2=int(b)*int(b1)
p3=int(c)*int(c1)
amt=int(p1)+int(p2)+int(p3)
if amt>2000:
    disc=amt*0.2
elif (amt>1500) and (amt<1999):
    disc=amt*0.15
elif (amt>1000) and (amt<1499):
    disc=amt*0.08
else:
    disc=0
print('1st product name : ',n1)
print('2nd product name : ',n2)
print('3rd product name : ',n3)
print('total amount : ',amt)
print('discount : ',amt-disc)
```

```
enter 1st product nameshirt
enter 2nd product namepant
enter 3rd product namet shirt
enter the 1st product cost:600
enter the 2nd product cost:800
enter the 3rd product cost:200
enter 1st product quantity3
enter 2nd product quantity2
enter 3rd product quantity1
1st product name :  shirt
2nd product name :  pant
3rd product name :  t shirt
total amount :  3600
discount :  2880.0
```

In [3]:

```
#discount sale 2
n1=input('enter 1st product name')
n2=input('enter 2nd product name')
n3=input('enter 3rd product name')
a=input('enter the 1st product cost:')
b=input('enter the 2nd product cost:')
c=input('enter the 3rd product cost:')
a1=input('enter 1st product quantity')
b1=input('enter 2nd product quantity')
c1=input('enter 3rd product quantity')
p1=int(a)*int(a1)
p2=int(b)*int(b1)
p3=int(c)*int(c1)
amt=int(p1)+int(p2)+int(p3)
if amt>2000:
    disc=amt*0.2
elif (amt>1500) and (amt<1999):
    disc=amt*0.15
elif (amt>1000) and (amt<1499):
    disc=amt*0.08
else:
    disc=0
print('1st product name : ',n1)
print('2nd product name : ',n2)
print('3rd product name : ',n3)
print('total amount : ',amt)
print('discount : ',amt-disc)
```

```
enter 1st product namesoap
enter 2nd product nameseepeu
enter 3rd product namekannadi
enter the 1st product cost:40
enter the 2nd product cost:10
enter the 3rd product cost:30
enter 1st product quantity100
enter 2nd product quantity500
enter 3rd product quantity700
1st product name :  soap
2nd product name :  seepu
3rd product name :  kannadi
total amount :  30000
discount :  24000.0
```

In [4]:

```

#discount sale 3
n1=input('enter 1st product name')
n2=input('enter 2nd product name')
n3=input('enter 3rd product name')
a=input('enter the 1st product cost:')
b=input('enter the 2nd product cost:')
c=input('enter the 3rd product cost:')
a1=input('enter 1st product quantity')
b1=input('enter 2nd product quantity')
c1=input('enter 3rd product quantity')
p1=int(a)*int(a1)
p2=int(b)*int(b1)
p3=int(c)*int(c1)
amt=int(p1)+int(p2)+int(p3)
if amt>2000:
    disc=amt*0.2
elif (amt>1500) and (amt<1999):
    disc=amt*0.15
elif (amt>1000) and (amt<1499):
    disc=amt*0.08
else:
    disc=0
print('1st product name : ',n1)
print('2nd product name : ',n2)
print('3rd product name : ',n3)
print('total amount : ',amt)
print('discount : ',amt-disc)

```

```

enter 1st product namewatch
enter 2nd product nameglass
enter 3rd product namebat
enter the 1st product cost:1000
enter the 2nd product cost:500
enter the 3rd product cost:200
enter 1st product quantity1
enter 2nd product quantity1
enter 3rd product quantity1
1st product name :  watch
2nd product name :  glass
3rd product name :  bat
total amount :  1700
discount :  1445.0

```

In [5]:

```

x1=((11+31+23+8+7+5)/((1-(1/2)-(1/20)))
print(x1)
x2=((((10*8)+8-((7//5)%(5**4)))&3)|(2<<1)
print(x2)

```

```

188.88888888888889
7

```

In [8]:

```
#student marklist 1
name=input('enter the name:')
s1=int(input('enter the mark:'))
s2=int(input('enter the mark:'))
s3=int(input('enter the mark:'))
totalmarks=s1+s2+s3
average=s1+s2+s3/3
if(average>80):
    c='class1'
elif(average>60) and (average<80):
    c='class2'
elif(average>40) and (average<59):
    c='passclass'
else:
    c='fail'
print('congratulations %s, U secured a total of %s, and your class is %s' %(name,totalmarks
```

```
enter the name:suriya
enter the mark:98
enter the mark:97
enter the mark:99
congratulations suriya, U secured a total of 294, and your class is class1
```

In [11]:

```
#student marklist 2
name=input('enter the name:')
s1=int(input('enter the mark:'))
s2=int(input('enter the mark:'))
s3=int(input('enter the mark:'))
totalmarks=s1+s2+s3
average=s1+s2+s3/3
if(average>80):
    c='class1'
elif(average>60) and (average<80):
    c='class2'
elif(average>40) and (average<59):
    c='passclass'
else:
    c='fail'
print('congratulations %s, U secured a total of %s, and your class is %s' %(name,totalmarks
```

```
enter the name:suriya
enter the mark:33
enter the mark:30
enter the mark:32
congratulations suriya, U secured a total of 95, and your class is class2
```

In [12]:

```
#student marklist 3
name=input('enter the name:')
s1=int(input('enter the mark:'))
s2=int(input('enter the mark:'))
s3=int(input('enter the mark:'))
totalmarks=s1+s2+s3
average=s1+s2+s3/3
if(average>80):
    c='class1'
elif(average>60) and (average<80):
    c='class2'
elif(average>40) and (average<59):
    c='passclass'
else:
    c='fail'
print('congratulations %s, U secured a total of %s, and your class is %s' %(name,totalmarks
```

```
enter the name:10
enter the mark:11
enter the mark:12
enter the mark:23
congratulations 10, U secured a total of 46, and your class is fail
```

In [16]:

```
#student marklist 4
name=input('enter the name:')
s1=int(input('enter the mark:'))
s2=int(input('enter the mark:'))
s3=int(input('enter the mark:'))
totalmarks=s1+s2+s3
average=(s1+s2+s3)/3
if(average>80):
    c='class1'
elif(average>60) and (average<80):
    c='class2'
elif(average>40) and (average<59):
    c='passclass'
else:
    c='fail'
print('congratulations %s, U secured a total of %s, and your class is %s' %(name,totalmarks
```

```
enter the name:suriya
enter the mark:54
enter the mark:55
enter the mark:53
congratulations suriya, U secured a total of 162, and your class is passclas
s
```

In [17]:

```
#add or even 1
n=int(input('enter the value'))
c=input()
if n%2==0:
    print('the given number is even')
else:
    print('the given number is odd')
if n>0:
    print('The given number is positive')
if n<0:
    print('The given number is negative')
if (c>='A' and c<='Z'):
    print('upper case')
elif (c>='a' and c<='z'):
    print('lower case')
else:
    print('not upper nor lower' )
```

enter the value7

a

the given number is odd

The given number is positive

lower case

In [18]:

```
#add or even 2
n=int(input('enter the value'))
c=input()
if n%2==0:
    print('the given number is even')
else:
    print('the given number is odd')
if n>0:
    print('The given number is positive')
if n<0:
    print('The given number is negative')
if (c>='A' and c<='Z'):
    print('upper case')
elif (c>='a' and c<='z'):
    print('lower case')
else:
    print('not upper nor lower' )
```

enter the value8

A

the given number is even

The given number is positive

upper case

In [19]:

```
#add or even 3
n=int(input('enter the value'))
c=input()
if n%2==0:
    print('the given number is even')
else:
    print('the given number is odd')
if n>0:
    print('The given number is positive')
if n<0:
    print('The given number is negative')
if (c>='A' and c<='Z'):
    print('upper case')
elif (c>='a' and c<='z'):
    print('lower case')
else:
    print('not upper nor lower' )
```

enter the value-7

a

the given number is odd

The given number is negative

lower case

In [20]:

```
#add or even 4
n=int(input('enter the value'))
c=input()
if n%2==0:
    print('the given number is even')
else:
    print('the given number is odd')
if n>0:
    print('The given number is positive')
if n<0:
    print('The given number is negative')
if (c>='A' and c<='Z'):
    print('upper case')
elif (c>='a' and c<='z'):
    print('lower case')
else:
    print('not upper nor lower' )
```

enter the value-8

A

the given number is even

The given number is negative

upper case

In []:

