

#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:5

Enter a number:6

area= 30

perimeter= 22

#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=basic*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:dinesh

Enter the amount:100000

name: dinesh

basicsalary 100000

tax 0

#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:dinesh
Enter the amount:250000
name: dinesh
basicsalary 250000
tax 50000.0
```

#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
else:
    tax=basicsalary*0.3
print('name:',name)
print('basicsalary',basicsalary)
print('tax',tax)
```

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

#dsicount 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:
    print('no discount')
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
```

#dsicount 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:
    print('no discount')
print('1st product name : ',n1)
print('2nd product name : ',n2)
print('3rd product name : ',n3)
print('total amount : ',amt)
print('discount : ',amt-disc)
```

#dsicount 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

```

#math expression

```

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

#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:
    print('fail')
print('congratulations %s, U secured a total of %s, and your class is %s' %(name,totalmarks,c))
```

```
enter the name:dinesh
enter the mark:98
enter the mark:97
enter the mark:96
congratulations dinesh, U secured a total of 291, and your class is class1
```

#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<=60):
    c='passclass'
else:
    print('fail')
print('congratulations %s, U secured a total of %s, and your class is %s' %(name,totalmarks,c))
```

```
enter the name:dinesh
enter the mark:76
enter the mark:75
enter the mark:54
congratulations dinesh, U secured a total of 205, and your class is class2
```

#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<=60):
    c='passclass'
else:
    print('fail')
print('congratulations %s, U secured a total of %s, and your class is %s' %(name,totalmarks,c))
```

```
enter the name:dinesh
enter the mark:45
enter the mark:35
enter the mark:65
congratulations dinesh, U secured a total of 145, and your class is
passclass
```

#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<=60):
    c='passclass'
else:
    c='fail'
print('congratulations %s, U secured a total of %s, and your class is %s' %(name,totalmarks,c))
```

```
enter the name:dinesh
enter the mark:22
enter the mark:11
enter the mark:33
congratulations dinesh, U secured a total of 66, and your class is
fail
```

#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
```

#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
```

#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
```

#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
```