

If else ststatement

Q1 Check whether the area of the triangle is greater than the perimeter of the triangle length=5 breadth=10

Hint: Area of rectangle=length*breadth

Hint: Perimeter of rectangle=2*(length+breadth)

Program

```
def areaOfRectangle(l,b):  
    return l*b  
def perimeter(l,b):  
    return 2*(l+b)  
l=5    #Length  
b=10   #Breadth  
if areaOfRectangle(l,b)>perimeter(l,b):  
    print('AREA OF RECTANGLE IS ==> GREATER')  
else:  
    print('PERIMETER OF THE TRIANGLE IS ==> GREATER')
```

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Q2 From the age of 3 people determine the oldest person among them

Age of first person =25

Age of second person =34

Age of third person =45

Program

```
firstPerson=25  
secondPerson=34  
thirdPerson=45  
if (firstPerson>secondPerson) and (firstPerson>thirdPerson):  
    print('Oldest person is FIRSTPERSON')  
elif (secondPerson>firstPerson) and (secondPerson>thirdPerson):  
    print('Oldest person is SECONDPERSON')  
else:  
    print('Oldest person is THIRDPERSON')
```

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Q3 write a Python program to divide them into three groups. Based on the user age

Group 1: Age<18, Minor who are not eligible to work

Group 2: 18<Age<60, Eligible to work

Group 3: >60, Too old to work as per govt.regulation

Program

```
Age=int(input('Enter your Age:-'))  
if Age<18:  
    print('Minor who are not eligible to work')  
elif 18<Age<60:  
    print('Eligible to work')  
else:  
    print('>60, Too old to work as per govt.regulation')
```

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Q4 Write a Python program to check whether an alphabet is a vowel or consonant

sample TestCase

input : k

output : consonant

Program

```
input1=input('enter Input:-')
l=['a','e','i','o','u','A','E','I','O','U']
if input1 in l:
    print('vowel')
else:
    print('consonant')
```

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Q5 A company decided to give bonus of 5% to employee if his/her year of service is mor than 5 years

sample TestCase

input : salary=102893

year =6

output : 108037.65

Program

```
salary=int(input('salary:-'))
year=int(input('year:-'))
if year >5:
    print(salary+salary*5/100)
else:
    print('Service is less than 5 Years')
```

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