

Q1. Check whether the area of the rectangle is greater than the perimeter of the rectangle

length = 5 breadth = 10

Hint: Area of rectangle = length * breadth

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

In [4]:

```
length = 5
breadth = 10
a_of_rect = length * breadth
p_of_rect = 2*(length + breadth)
if a_of_rect > p_of_rect:
    print(True)
else:
    print(False)
```

True

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

In [1]:

```
x = 25
y = 34
z = 45
if x>y and x>z:
    print('first person')
elif y>x and y>z:
    print('Second person')
else:
    print('third person')
```

third person

Q3. Write a Python program to divide them into three groups, Based on the users age.

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

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

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

In [2]:

```
age = int(input('>>>'))
if age < 18:
    print('not eligible to work')
elif age > 18 and age < 60:
    print('Eligible to work')
else:
    print('Too old to work as per govt. regulations.')
```

```
>>>60
Too old to work as per govt. regulations.
```

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

Sample TestCase:

Input:
k

Output:
consonant

In [7]:

```
consonant = 'bcdfghjklmnpqrstvwxyz'
vowel = 'aeiou'
num = input('>>>')
if num in vowel:
    print('Vowel')
else:
    print('Consonent')
```

```
>>>k
Consonent
```

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

Sample TestCase:

Input:
Salary = 102893
year = 6

Output:
108037.65

In [34]:

```
salary = int(input('Salary'))
year = int(input('year'))

if year>5:
    bouns = salary *0.05
    total_salary = salary + bouns
    print(total_salary)
else:
    print(salary)
```

Salary23
year3
23

In []: