PENTAGON SPACE
Mastering The Future

If else statements

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)

```python
In [ ]: 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)
```

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

```python
In [ ]: 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')
```

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.

```python
In [ ]: 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.')
```

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

Sample TestCase:

Input:

k

Output:

consonant

```
In [ ]: consonent = 'bcdfghjklmnpqrstvwxyz'
        vowel = 'aeiou'
        num = input('>>>')
        if num in vowel:
            print('Vowel')
        else:
            print('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 [ ]: 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)
```

```
In [ ]:
```