

Conditions and If 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)

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 [ ]: public class oldest_person {
    static int x = 25;
    static int z = 45;
    static int z = 45;
    public static void main(String[] args) {
        if (x>y & x>z) {
            System.out.println("First Person");
        } else if (y>x & y>z) {
                System.out.println("Second Person");
        } else{
                System.out.println("Third Person");
        }
    }
}
```

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

```
Group 3 :>60, Too old to work as per govt. regulations.
In []: import java.util.Scanner;
class Age {
    public static void main(String[] args){
        int num;
        System.out.println("Enter the Age: ");
        Scanner s = new Scanner(System.in);
        num = s.nextInt();
        if (num<18){
            System.out.println("not eligible to work");
        }else if (num>18 & num<60){
            System.out.println("Eligible to work");
        }else{
            System.out.println("Too old to work as per govt. regulations.");
        }
    }
}
```

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

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

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

Sample TestCase:

Input:

k

Output:

consonant

```
In [ ]: import java.util.*;
        class Char {
           public static void main(String[ ] arg)
           int i=0;
           Scanner sc=new Scanner(System.in);
           System.out.println("Enter a character : ");
           char ch=sc.next( ).charAt(0);
           switch(ch)
            case 'a':
            case 'e' :
             case 'i' :
            case 'o' :
             case 'u' :
            case 'A':
            case 'E' :
            case 'I' :
            case '0' :
            case 'U' :i++;
           if(i==1)
           System.out.println("Entered character "+ch+" is Vowel");
               if((ch>='a'&&ch<='z')||(ch>='A'&&ch<='Z'))
               System.out.println("Entered character "+ch+" is 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