DAY-12

- WRITE A PROGRAM TO FIND THE WHETHER THE CHARACTER IS AN ALPHABET OR NOT

ch = #

A-Z   , a-z

(A - Z) OR (a - z) ✓

(A-Z) AND (a-z) ✗

(A-Z) || (a-z)

(# >= 'A' AND #<='Z')

(ch >= 'A' && ch <= 'Z') || (ch >='a' && ch <= 'z')

```
class Test1
{
    public static void main(String[] args)
    {
        char ch = 'R';

        if (ch >= 'a' && ch <='z' || ch >= 'A' && ch <= 'Z')
        {
            System.out.println(ch + " is a an Alphabet");
        }
        else                                              NESTED PAGE
        {
            System.out.println(ch + " is not a an Alphabet");
        }
    }
}
```

- WRITE A PROGRAM TO FIND THE WHETHER THE CHARACTER IS VOWEL OR NOT

VOWELS :

A OR E OR I OR O OR U OR a OR e OR I OR o OR u

 A || E || O || U || a || e || o || I || u

```
class Test1
{
    public static void main(String[] args)
    {
        char y = 'a';

        if (y == 'a' || y == 'e' || y == 'i' || y == 'o' || y == 'u' || y == 'A' || y == 'E' || y == 'I' || y == 'O' || y == 'U')
        {
            System.out.print("it is a vowel");
        }
        else
```

```
            {
                    System.out.print("it is not a vowel");
            }
        }
}
```

NESTED IF

- THIS STATEMENT IS AN IF CONDITION WITH-IN IF CONDITION
- THE NESTED IF CHECKS THE CONDITION-1 AND IF IT IS TRUE, IT ENTERS THE BLOCKS AND CHECK CONTION-2, IF THAT IS ALSO TRUE IT EXECUTES THE SET OF BLOCK OR IT EXECUTES THE ELSE BLOCK.
- IF THE CONDITION-1 GETS FALSE THEN IT GOES TO THE ELSE PART OF CONDITION-1 AND CHECKS CONDITION 3, IF IT IS TRUE THEN IT EXECUTES THE SET OF BLOCK OR IT EXECUTES THE ELSE BLOCK

SYNTAX :

```
If(condition1)
{
        If(condition2)
        {
                //code to be executed
        }
        Else
        {
                // code to be executed
        }

}
Else
{

        If(condition3)
        {
                //code to executed
        }
        Else
        {
            //code to executed
        }
}
```