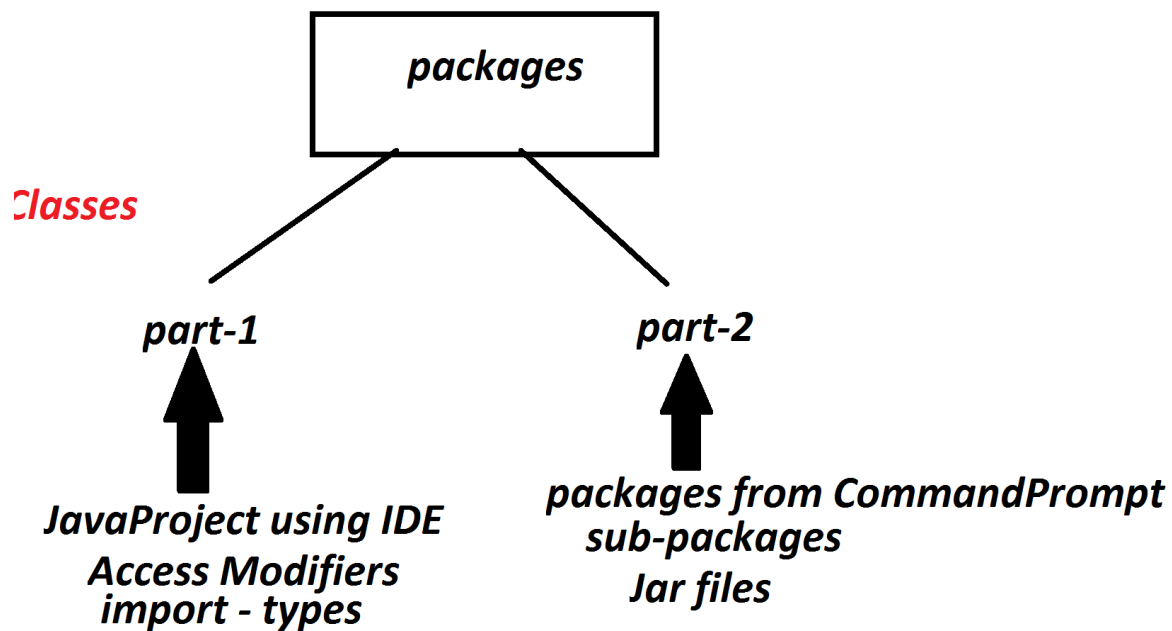


=====

Dt : 13/9/2022

Diagram:



=====

***imp**

Strings in Java:

=>The sequenced collection of characters which are represented in double quotes is known as string.

Ex:

"nit", "hyd", ...

=>The characters in string are organized based on index values.

=>strings in Java are not arrays.

=>we use the following pre-defined classes to generate string objects:

1.java.lang.String class

2.java.lang.StringBuffer class

3.java.lang.StringBuilder class

1.java.lang.String class:

=>The objects which are generated from java.lang.String class are "Immutable objects".(The objects once created cannot be modified are known as Immutable objects or Secured Objects or Constant Objects)

=>java.lang.String class having 15 Constructors.

=>we use the following two syntaxes to create java.lang.String class objects:

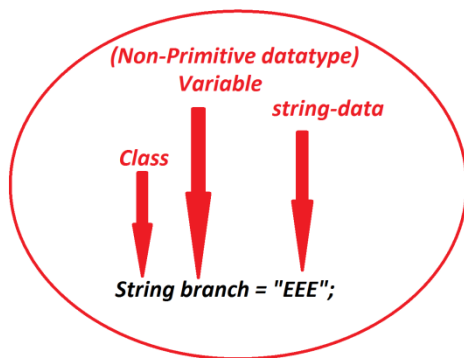
syntax-1 : Using 'String literal process'.

```
String name = "Raj";
```

```
String branch = "EEE";
```

syntax-2 : Using 'new operator process'

```
String ob = new String("program");
```



Ex-program:

wap to read and display String?

DemoString1.java

```
package maccess;
import java.util.*;
public class DemoString1 {
    public static void main(String[] args) {
        Scanner s = new Scanner(System.in);
        System.out.println("Enter the String:");
        String str = s.nextLine();//String object
        int len = str.length();
        System.out.println("length:"+len);
        System.out.println("String Object : "+str.toString());
        System.out.println("Enter index to display char:");
        int index = s.nextInt();
        if(index>=0 && index<len)
        {
            char ch = str.charAt(index);
            //getting character based on index
            System.out.println("char : "+ch);
        }//end of if
        else
        {
            System.out.println("Invalid index value...");
        }
        s.close();
    }
}
```

o/p:

Enter the String:

program

length:7

String Object : program

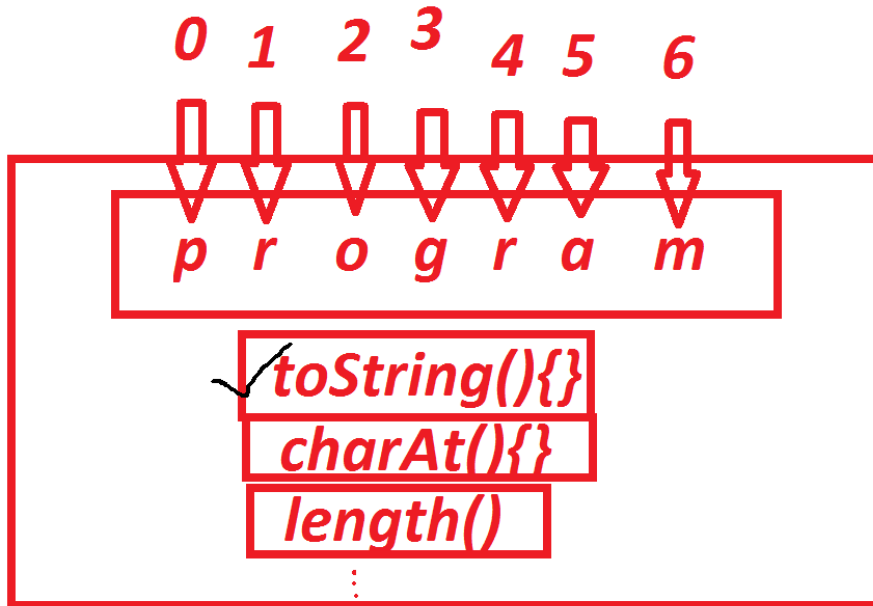
Enter index to display char:

4

char : r

Diagram:

Venkatesh Maipathii



0x11

length=7

String str = s.nextLine();

System.out.print(str);

=====
Assignment:

*wap to retrieve character based on index value and check
character is Vowel or Consonent or others?*

=====