2.5 For Loop

This section will guide you to:

- Understand how to use For loop

Development Environment:

- Java 1.8
- Eclipse

This guide has three subsections, namely:

2.5.1 Creating a java class in eclipse

2.5.2 Executing the program

2.5.3 Pushing the code to your GitHub repositories

Step 2.5.1: Creating a java class in eclipse

a) For Loop: For Loop is used when the number of iterations is fixed and the user knows exactly how many times the block of code has to be executed.

b) Enhanced For Loop: The Enhanced For Loop is used to traverse array or collection in java. It is easier to use than a simple For Loop because we don't need to increment value and use subscript notation.

It works on elements based on the index. It returns elements one by one in the defined variable.

- Open Eclipse
- Click on File---> Click on New--->Project
- Select the Java project and click on Next
- Enter the project name and click on Finish
- Right click on Project---> New---> Package
- Enter the package name ---> Finish
- Right click on Package---> New---> Class
- Enter the class name---> click on Finish

Step 2.5.2: Executing the program

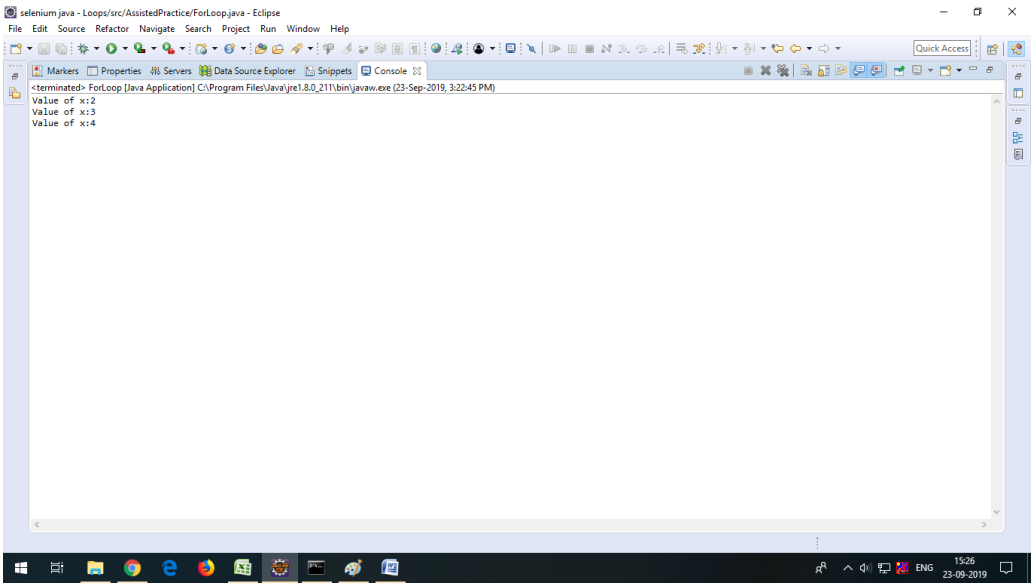
- Program for For Loop

```
package AssistedPractice;

public class ForLoop
{
   public static void main(String args[])
    {

        for (int x = 2; x <= 4; x++)
            System.out.println("Value of x:" + x);
    }
}
```

- Click on Save--->Click on Run and check the output in console.



- Program for Enhanced For Loop.

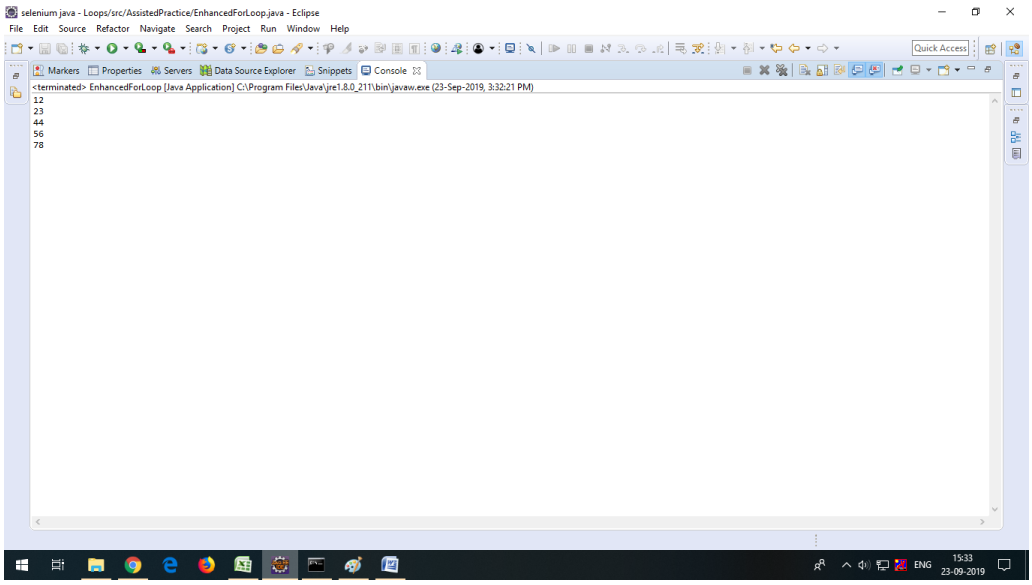
```
 package AssistedPractice;

public class EnhancedForLoop
{
public static void main(String[] args)
{

    int arr[]={12,23,44,56,78};

    for(int i:arr)
    {
        System.out.println(i);
    }
}
}
```

- Click on Save--->Click on Run and check the output in console.



Step 2.5.3: Pushing the code to your GitHub repositories

Open your command prompt and navigate to the folder where you have created your files.

cd java_program

Initialize your repository using the following command:

git init

Add all the files to your git repository using the following command:

git add .

Commit the changes using the following command:

git commit . -m “Changes have been committed.”

Push the files to the folder you initially created using the following command:

git push -u origin master