3. CREATING AN APPLICATION IN SALESFORCE.COM USING APEX PROGRAMMING LANGUAGE.

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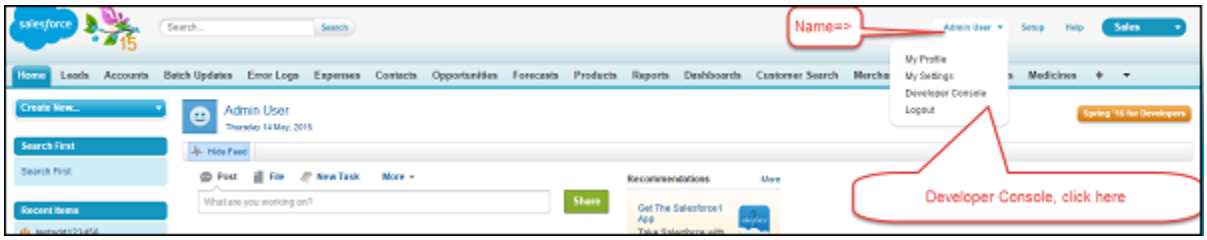
The Developer Console is an integrated development environment with a collection of tools you can use to create, debug, and test applications in your Salesforce organization.

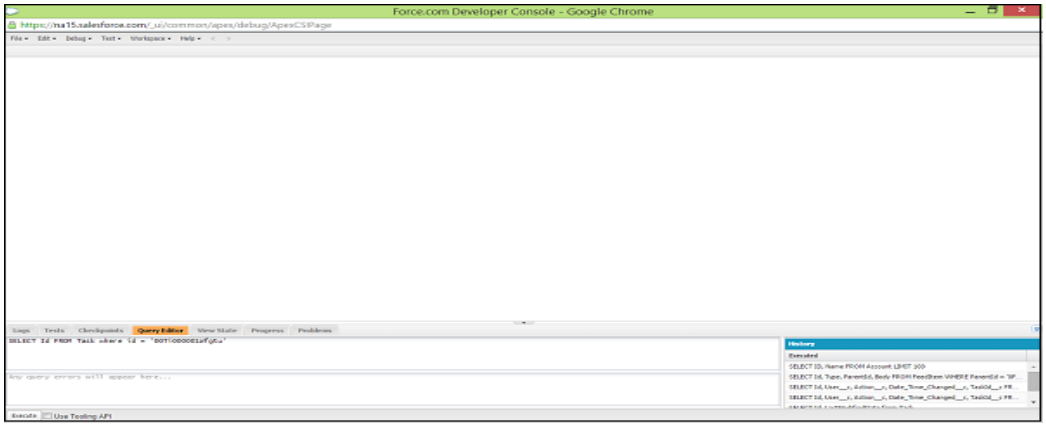
Follow these steps to open the Developer Console −

Step 1 – Login to salesforce account

Go to Name → Developer Console



Step 2 − Click on "Developer Console" and a window will appear as in the following screenshot.



Following are a few operations that can be performed using the Developer Console.

- **Writing and compiling code** − You can write the code using the source code editor. When you save a trigger or class, the code is automatically compiled. Any compilation errors will be reported.
- **Debugging** − You can write the code using the source code editor. When you save a trigger or class, the code is automatically compiled. Any compilation errors will be reported.
- **Testing** − You can view debug logs and set checkpoints that aid in debugging.
- **Checking performance** − You can execute tests of specific test classes or all classes in your organization, and you can view test results. Also, you can inspect code coverage.
- **SOQL queries** − You can inspect debug logs to locate performance bottlenecks.

- **Color coding and autocomplete** − The source code editor uses a color scheme for easier readability of code elements and provides auto completion for class and method names.

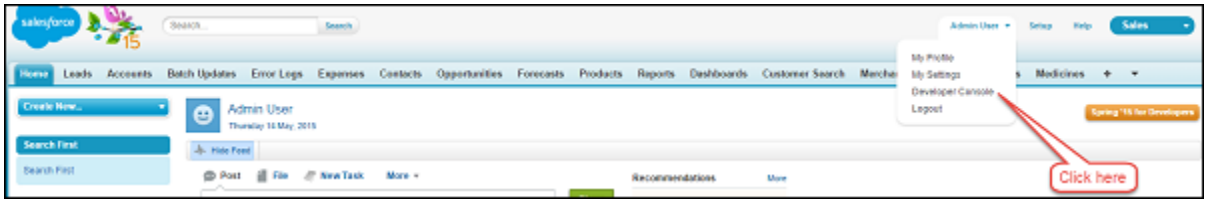
EXECUTING APEX CODE IN DEVELOPER CONSOLE

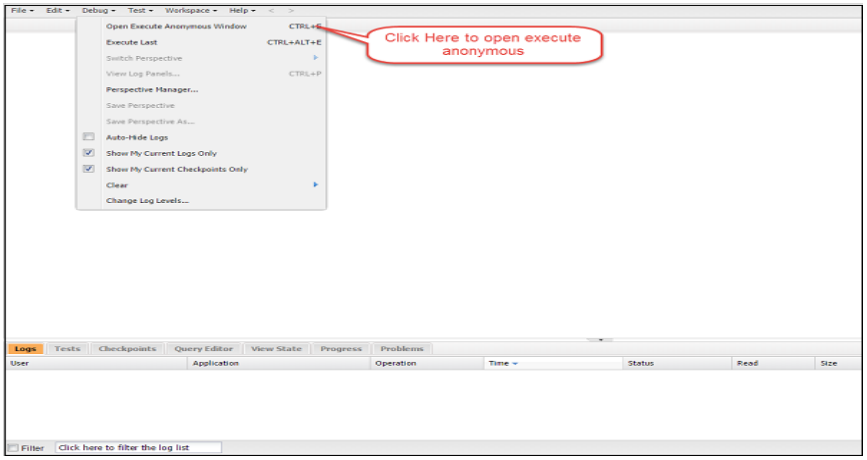
All the code snippets mentioned in this tutorial need to be executed in the developer console. Follow these steps to execute steps in Developer Console.

Step 1 − Login to the Salesforce.com using **login.salesforce.com**. Copy the code snippets mentioned in the tutorial. For now, we will use the following sample code.

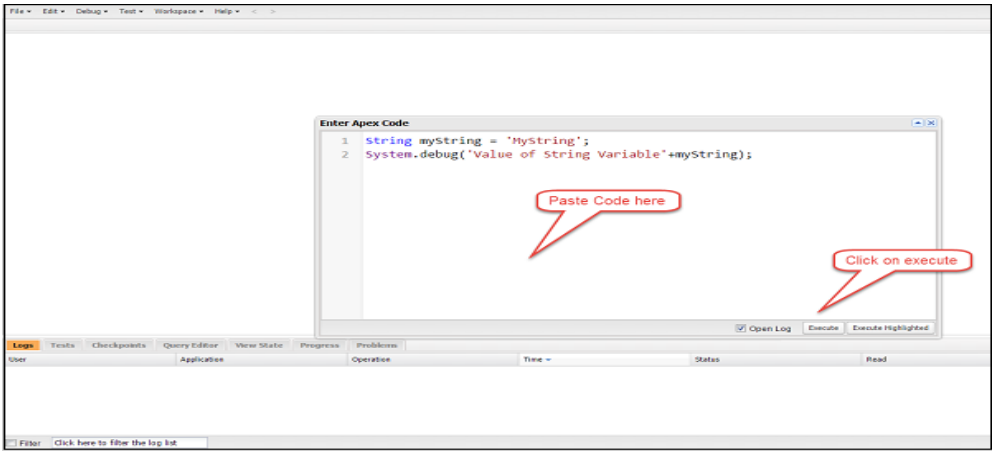
```
String myString = 'MyString';
System.debug('Value of String Variable'+myString);
```

Step 2 − To open the Developer Console, click on Name → Developer Console and then click on Execute Anonymous as shown below.

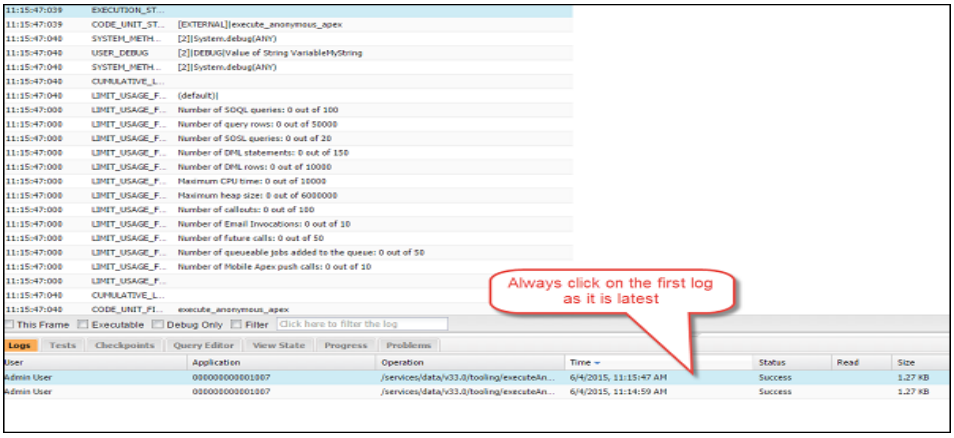




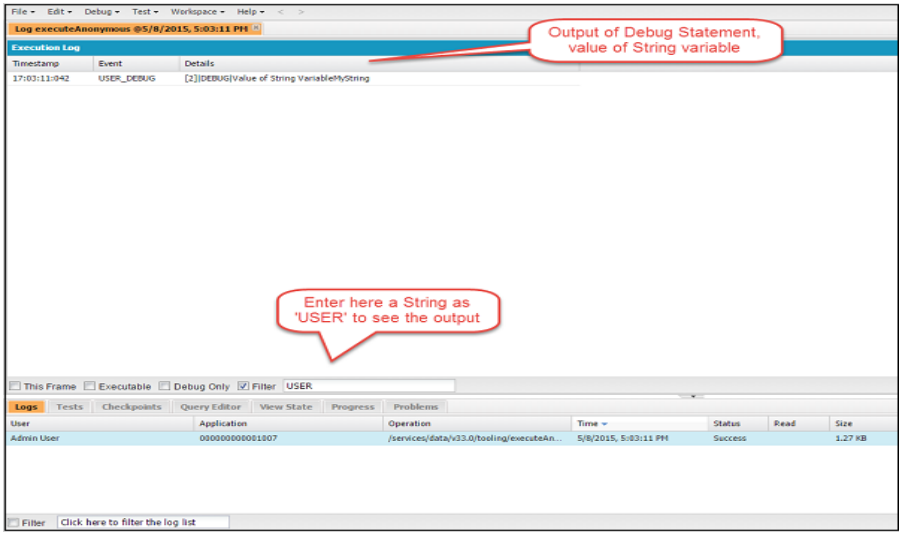
Step 3 − In this step, a window will appear and you can paste the code there.



Step 4 − When we click on **Execute**, the debug logs will open. Once the log appears in window as shown below, then click on the log record.



Then type 'USER' in the window as shown below and the output statement will appear in the debug window. This 'USER' statement is used for filtering the output.



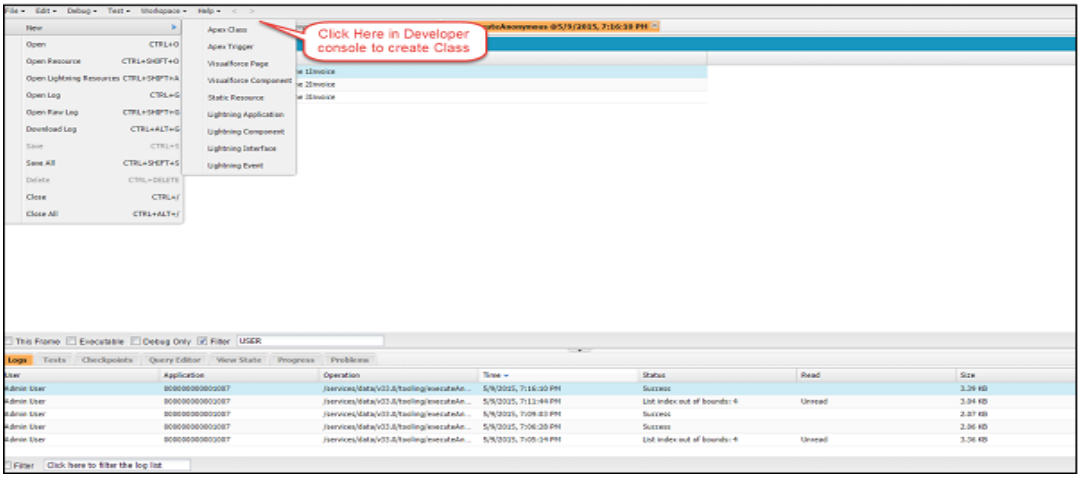
EX-2: YOU CAN CREATE CLASS IN APEX FROM THE DEVELOPER CONSOLE, FORCE.COM

From Developer Console

Follow these steps to create an Apex class from the Developer Console −

Step 1 − Go to Name and click on the Developer Console.

Step 2 − Click on File ⇒ New and then click on the Apex class.



From Force.com IDE

Follow these steps to create a class from Force.com IDE −

Step 1 − Open Force.com Eclipse IDE

Step 2 − Create a New Project by clicking on File ⇒ New ⇒ Apex Class.

Step 3 − Provide the Name for the Class and click on OK.

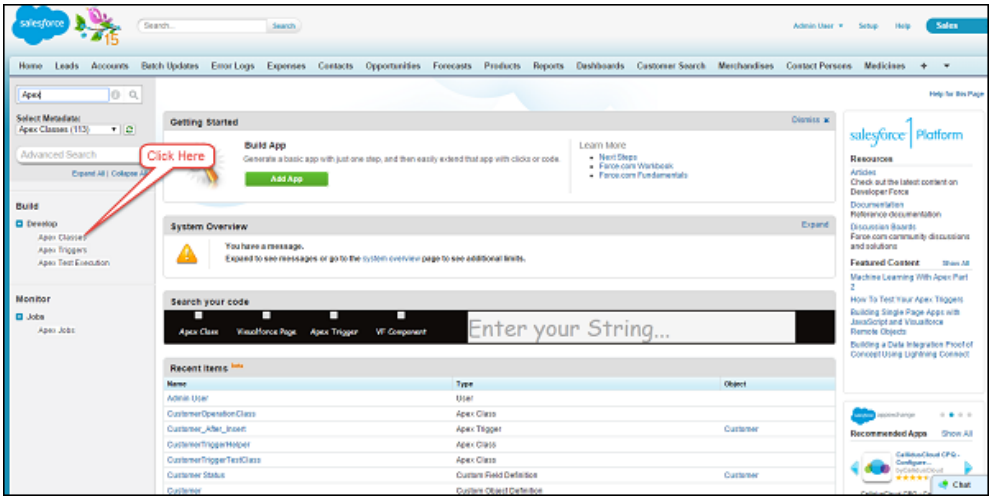
Once this is done, the new class will be created.

From Apex Class Detail Page

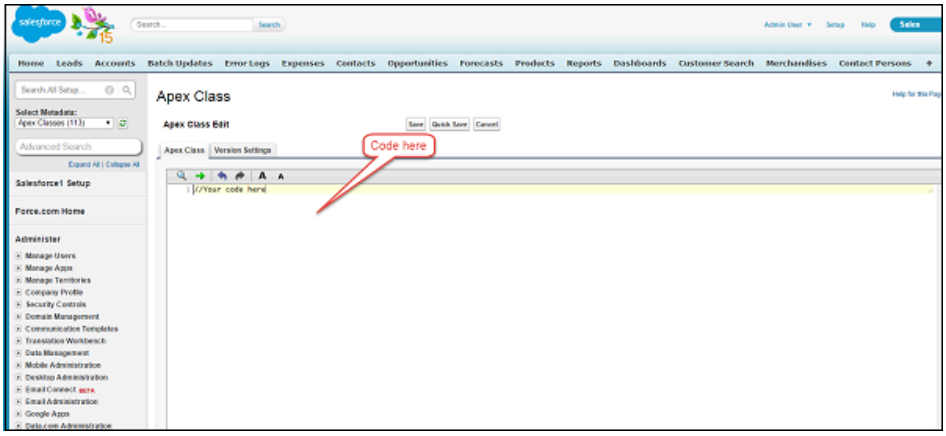
Follow these steps to create a class from Apex Class Detail Page −

Step 1 − Click on Name ⇒ Setup.

Step 2 − Search for 'Apex Class' and click on the link. It will open the Apex Class details page.



Step 3 − Click on 'New' and then provide the Name for class and then click Save.



Example

Following is a sample structure for Apex class definition −

```
public class MySampleApexClass {       //Class definition and body
   public static Integer myValue = 0;  //Class Member variable
   public static String myString = ''; //Class Member variable

   public static Integer getCalculatedValue () {
   // Method definition and body
   // do some calculation
      myValue = myValue+10;
      return myValue;
   }
}
```