# APEX - INVOKING

Apex invoking refers to the process of executing the Apex class. Apex class can only be executed when it is invoked via one of the below ways:

- Triggers and Anonymous block
- A trigger invoked for specified events.
- Asynchronous Apex
- Scheduling an Apex class to run at specified intervals, or running a batch job.
- Web Services class
- Apex Email Service class
- Apex Web Services, which allow exposing your methods via SOAP and REST Web services.
- Visualforce Controllers
- Apex Email Service to process inbound email.
- Invoking Apex Using JavaScript
- The Ajax toolkit to invoke Web service methods implemented in Apex.

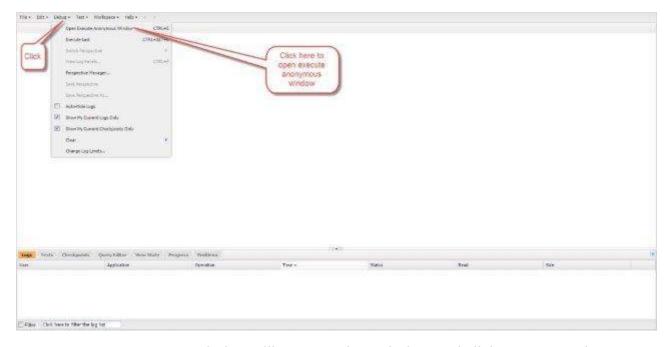
We will have look at some common way to invoke Apex.

# From Execute Anonymous Block

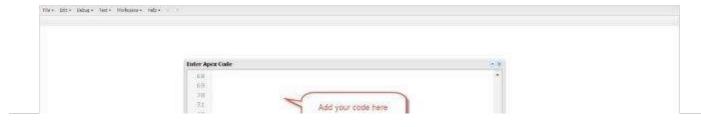
You could invoke the Apex class via execute anonymous in Developer console as shown below:

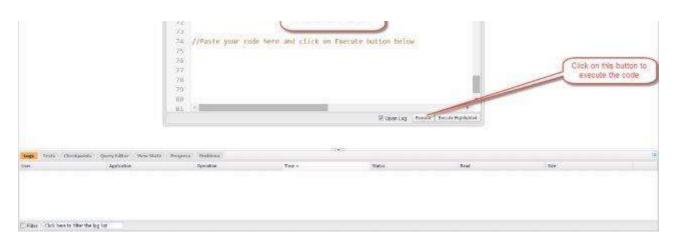
#### Step 1: Open Developer Console

## Step 2: Click on Debug.

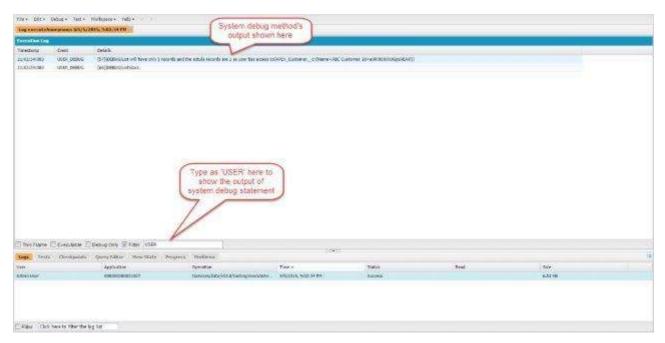


**Step 3:** Execute anonymous window will open as shown below and click on execute button:





**Step 4:** Open Debug Log when it will appear in Logs pane.



# From Trigger

You could call an Apex class from Trigger as well. Triggers are called when a specified event occurs and triggers can call the Apex class when executing.

Below is the sample code that shows how a class gets executed when a Trigger is called.

#### **Example:**

```
//Class which will gets called from trigger
public without sharing class MyClassWithSharingTrigger {
    public static Integer executeQuery (List<apex_customer__c> CustomerList) {
        //perform some logic and operations here
        Integer ListSize = CustomerList.size();
        return ListSize;
    }
}

//Trigger Code
trigger Customer_After_Insert_Example on APEX_Customer__c (after insert) {
    System.debug('Trigger is Called and it will call Apex Class');
        MyClassWithSharingTrigger.executeQuery(Trigger.new);//Calling Apex class and method of an Apex class
}

//This example is for reference, no need to execute and will have detail look on triggers later chapters.
```

# From Visualforce Page Controller Code

Apex class can be called from Visualforce page as well. We can specify the controller or controller extension and the specified Apex class gets called.

#### **Example:**

## **VF Page Code:**

## Apex Class Code ControllerExtension

```
public with sharing class EventBiatoryControllerExtension (

public String strEventId(get/set/)
public ListoEvent Field Biatory Tracker _c> lstFieldBistory (get; set;). Apex Class which will be
public String message(get;set.)
public string strEventId(Fromth (get; set;)
public id strEventId( [get; set])

public EventBistoryControllerExtension(ApexPages.StandardController controller) (
    strEventId = System.currentPageReference().getParameters().get('in');
    if (strEventId != null) {
        strEventId != id.valueof(strEventId);
    }
    system.debug('strEventId(BD))('+strEventId');
    System.debug('strEventId(BD))('+strEventId');
    System.debug('strEventId(BD))('+strEventId');
}
```