

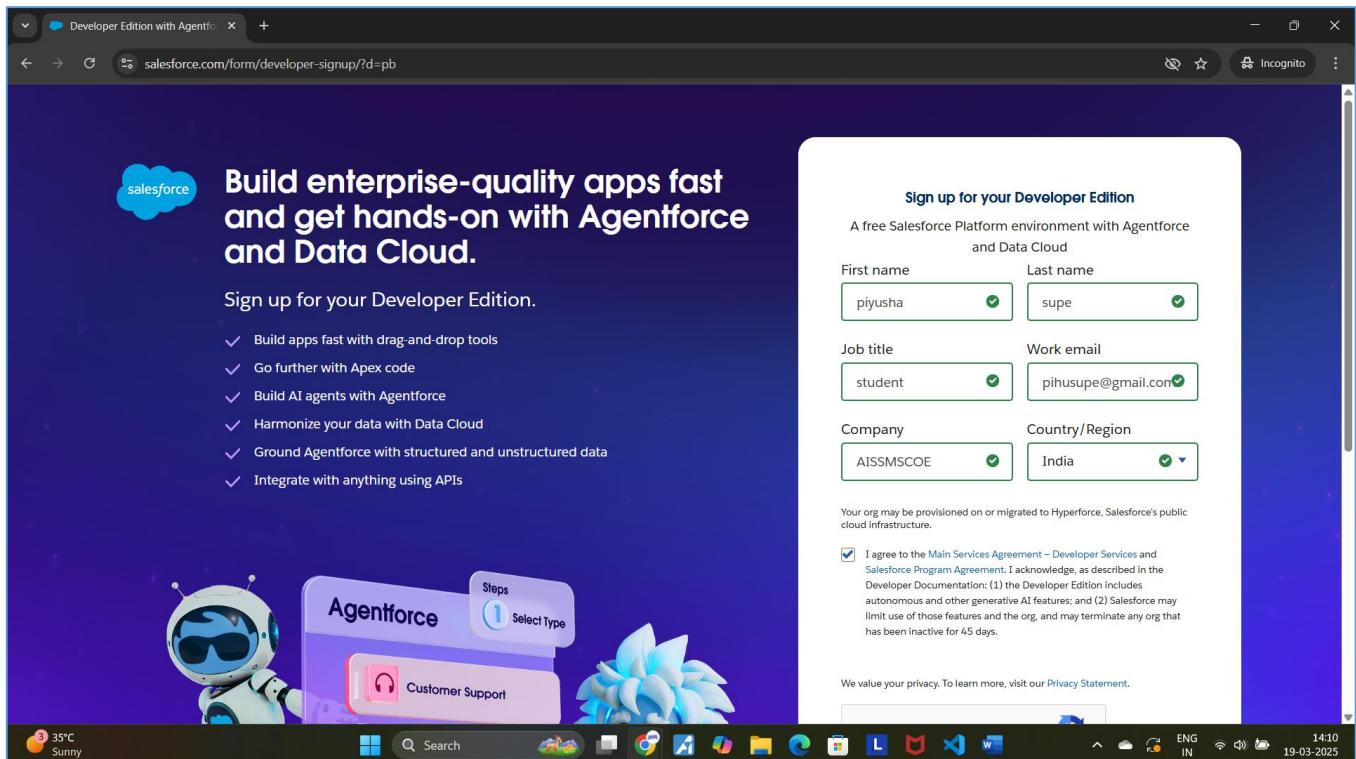
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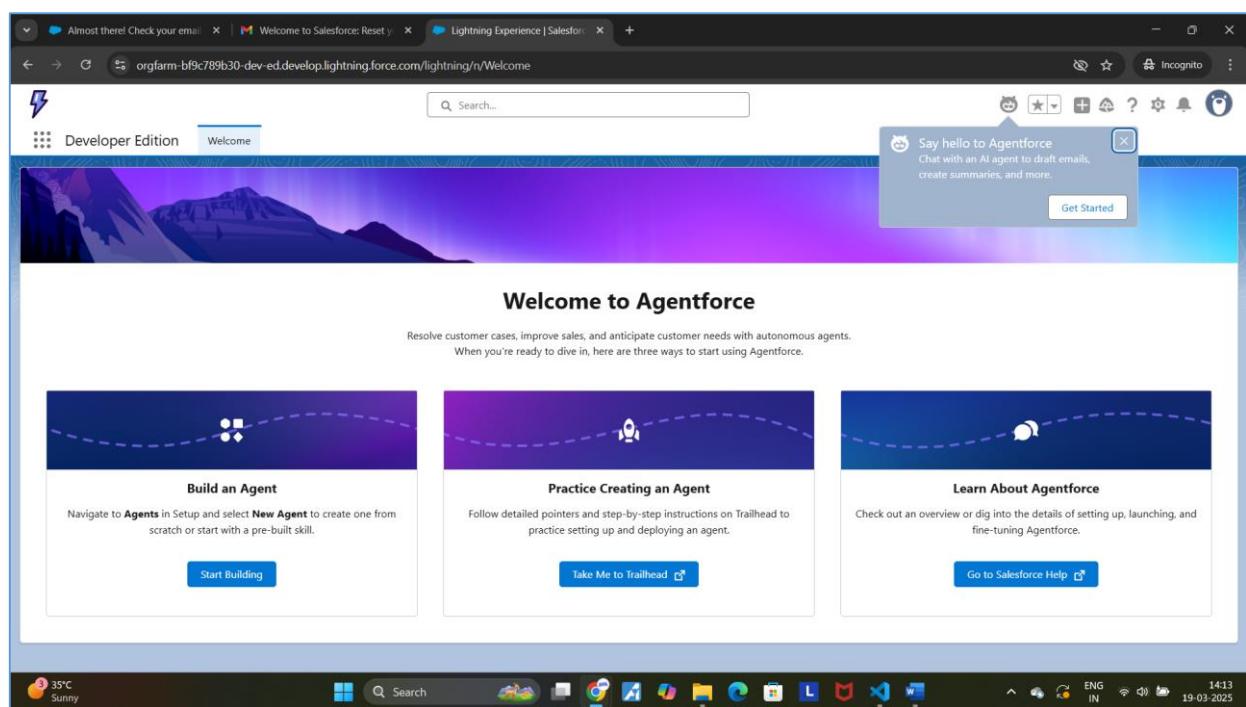
Practical 03

Aim: Creating an Application in SalesForce.com using Apex Programming Language.

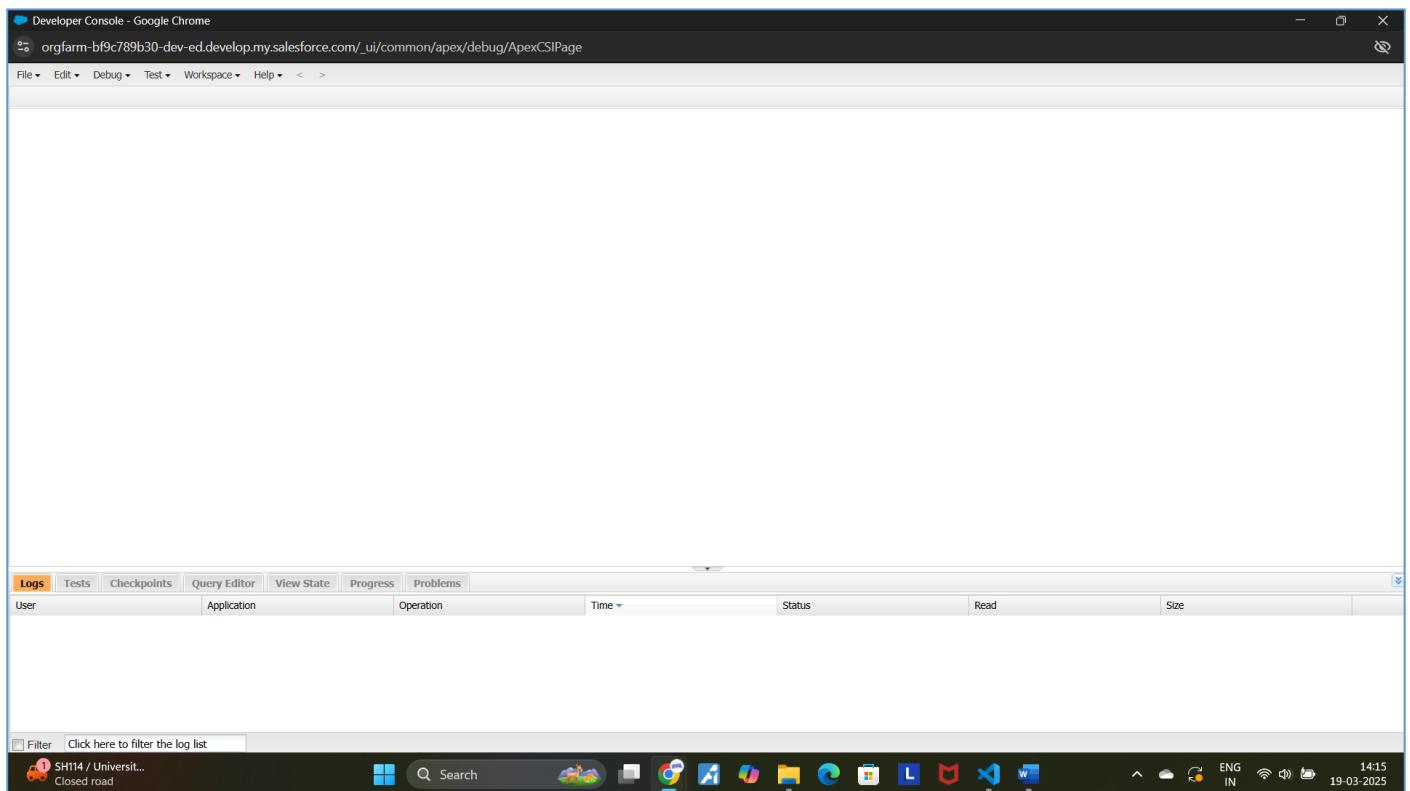
Step 1: Signup here <https://www.salesforce.com/form/developer-signup/?d=pb>



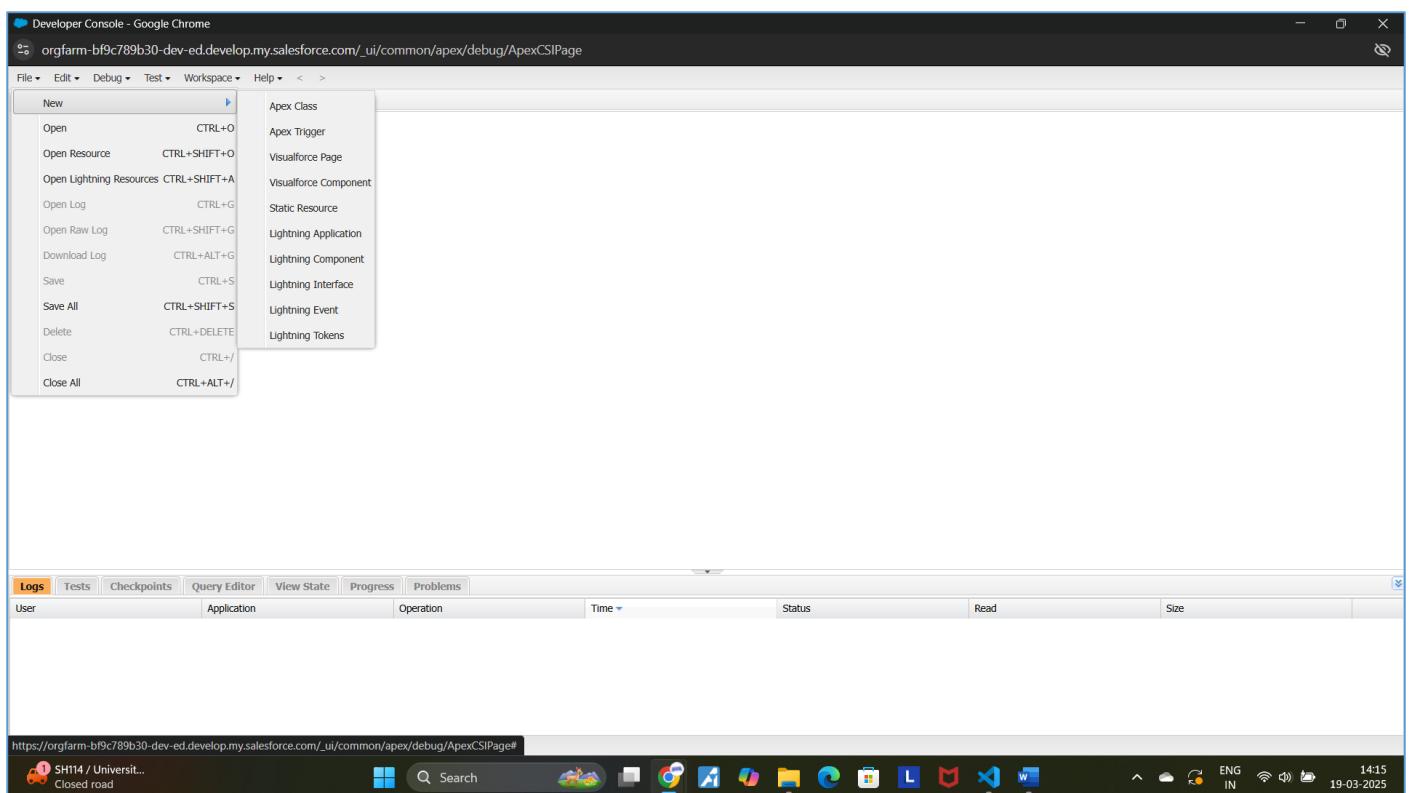
Step 2: Login here <https://login.salesforce.com/>



Step 3: Click on developer console: in right most corner, you will see below console window:

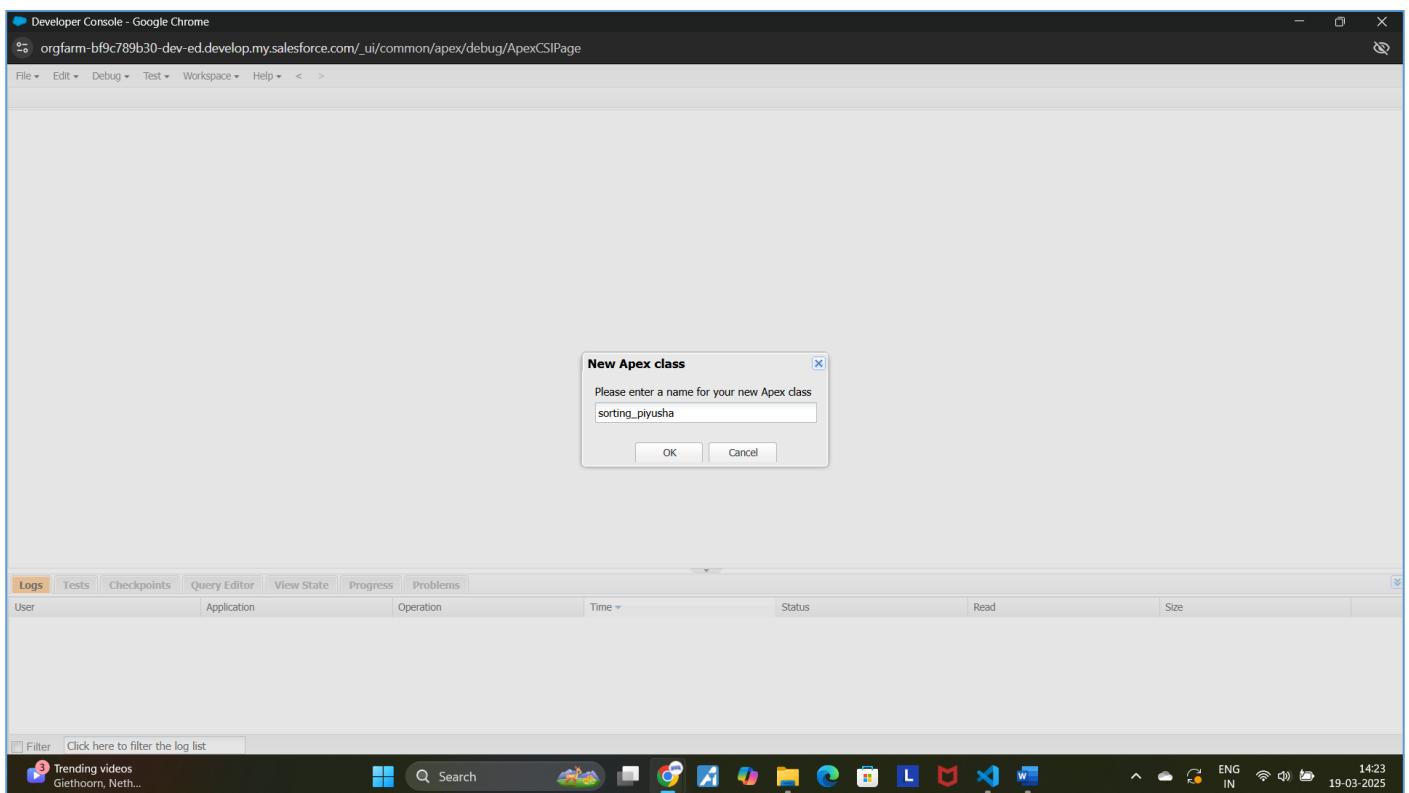


Step 4: Go to file > select new > select apex class

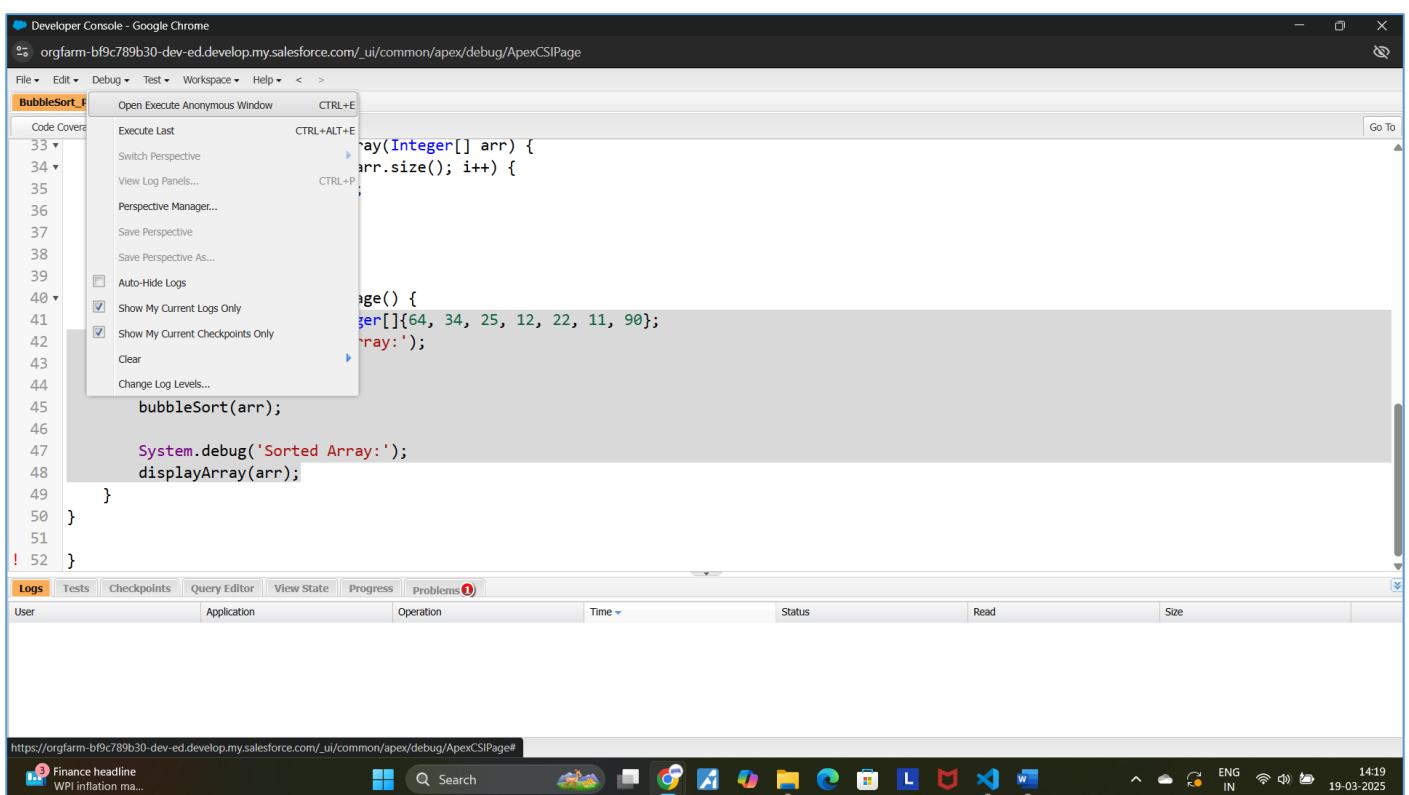


Step 5: Write class name as per your requirement for example

So here class name will be “sorting_piyusha”



Step 6: Then go to debug > Open Execute Anonymous Window >



Step 7: Then Execute

The screenshot shows the Salesforce Developer Console in Google Chrome. The URL is https://orgfarm-bf9c789b30-dev-ed.develop.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage. The page displays the `sorting_piyusha.apxc` file content:

```

1 public class sorting_piyusha {
2
3     // Bubble Sort Method
4     public static List<Integer> bubbleSort(List<Integer> arr) {
5         Integer n = arr.size();
6         for (Integer i = 0; i < n - 1; i++) {
7             for (Integer j = 0; j < n - i - 1; j++) {
8                 if (arr[j] > arr[j + 1]) {
9                     // Swap elements
10                    Integer temp = arr[j];
11                    arr[j] = arr[j + 1];
12                    arr[j + 1] = temp;
13                }
14            }
15        }
16        return arr; // Return the sorted list
17    }
18 }
19

```

To the right, there is an "Enter Apex Code" panel with the following code:

```

1 // Define a list of numbers to sort
2 List<Integer> numbers = new List<Integer>{64, 34, 25, 12, 22, 11, 90};
3
4 // Call the bubbleSort method and store the result
5 List<Integer> sortedNumbers = sorting_piyusha.bubbleSort(numbers);
6
7 // Print the sorted list in debug logs
8 System.debug('Sorted Array: ' + sortedNumbers);
9

```

At the bottom of the developer console, there are tabs for Logs, Tests, Checkpoints, Query Editor, View State, Progress, and Problems. The Problems tab is selected. The status bar at the bottom shows the date and time as 19-03-2025 14:40.

Step 8: Select Debug only and check output

The screenshot shows the Salesforce Developer Console in Google Chrome, identical to the previous one but with a different tab selected. The "Execution Log" tab is now active, showing the log output for the execution of `Log executeAnonymous @3/19/2025, 2:40:46 PM`:

Timestamp	Event	Details
14:40:46:001	USER_INFO	[EXTERNAL]1005gK000000h35u piyusha@17.agentforce.com (GMT-07:00) Pacific Daylight Time (America/Los_Angeles) GMT-07:00
14:40:46:001	EXECUTION_ST...	
14:40:46:001	CODE_UNIT_ST...	[EXTERNAL]execute_anonymous_apex
14:40:46:002	VARIABLE_SCO...	[2]numbers>List<Integer> true false
14:40:46:002	VARIABLE_SCO...	[5]sortedNumbers>List<Integer> true false
14:40:46:002	HEAP_ALLOCATE	[93] Bytes:3
14:40:46:002	HEAP_ALLOCATE	[98] Bytes:152
14:40:46:002	HEAP_ALLOCATE	[415] Bytes:408
14:40:46:002	HEAP_ALLOCATE	[428] Bytes:408
14:40:46:002	HEAP_ALLOCATE	[536] Bytes:48
14:40:46:002	HEAP_ALLOCATE	[247] Bytes:6
14:40:46:002	HEAP_ALLOCATE	[EXTERNAL] Bytes:5
14:40:46:002	STATEMENT_EX...	[1]
14:40:46:002	STATEMENT_EX...	[2]
14:40:46:002	HEAP_ALLOCATE	[2] Bytes:4

At the bottom of the developer console, there are tabs for Logs, Tests, Checkpoints, Query Editor, View State, Progress, and Problems. The Problems tab is selected. The status bar at the bottom shows the date and time as 19-03-2025 14:40.

The screenshot shows the Salesforce Developer Console in Google Chrome. The URL is `orgfarm-bf9c789b30-dev-ed.develop.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage`. The tab title is `Log executeAnonymous @3/19/2025, 2:40:46 PM`. The Execution Log table has columns for Timestamp, Event, and Details. A single entry is shown: `14:40:46:004 USER_DEBUG [8]|DEBUG|Sorted Array: (11, 12, 22, 25, 34, 64, 90)`. Below the log is a toolbar with various tabs like Logs, Tests, Checkpoints, Query Editor, View State, Progress, and Problems. The Problems tab is selected. The Windows taskbar at the bottom shows the date as 19-03-2025.

This screenshot is identical to the one above, showing the Salesforce Developer Console in Google Chrome. The URL, tab title, log entry, and overall interface are the same, demonstrating consistency in the application's behavior.

Conclusion: Thus I have successfully implemented an application on salesforce cloud using apex.