**CHAPTER 10: TESTING**

10.1 Testing Strategy And Test Cases:

- The testing approach used for the project is Black Box Testing Strategy.

**TEST CASES:-**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test Case ID** | **Function Name** | **Test Case (condition)** | **Expected Results** | **Actual Result** | **Pass/Fail** |
| **1** | **Distance Measurement** | **If(distance<=30 && distance2>30)** | **Enable green led for 2 seconds** | **green led high,**  **red led low for 2 seconds** | **Pass** |
| **2** |  | **If(distance2<=30)** | **Enable green led for 5 seconds** | **Green led is enable for 5 seconds** | **Pass** |
| **3** |  | **If(distance<=30 && distance2>30)** | **Should enable green led of road 2 for 2 seconds** | **Green led is enabled for 2 seconds for 2nd road** | **Pass** |
| **4** |  | **If(distance2<=30)** | **Should enable green led of road 2 for 5 seconds** | **Green led is enabled for 5 seconds for 2nd road** | **Pass** |