**Assignment 6**

Assignment Title:

Testing of Problem Statement (Using generated test data (using mathematical

models, Function testing principles) selection and appropriate use of testing

tools, testing of UML diagrams reliability)

Introduction:

Software testing is a process, to evaluate the functionality of a software application with an intent to find whether the developed software met the specified requirements or not and to identify the defects to ensure that the product is defect free in order to produce the quality product.

Testing Approaches used :

**1.Functionality testing**

Functionality testing is a type of software testing whereby the system is tested against the functional requirements/specifications.

Using Functionality testing we check following users functional

requirements are satisfy or not.

* Creating new user and assigning authority to user in database
* User provided with test scenario independent of local system.
* User can login to test questions provided by company.

**2. Implementation testing**:

Black-box testing

It is carried out to test functionality of the program and also called

Behavioral testing. The tester in this case, has a set of input values and

respective desired results. On providing input, if the output matches with

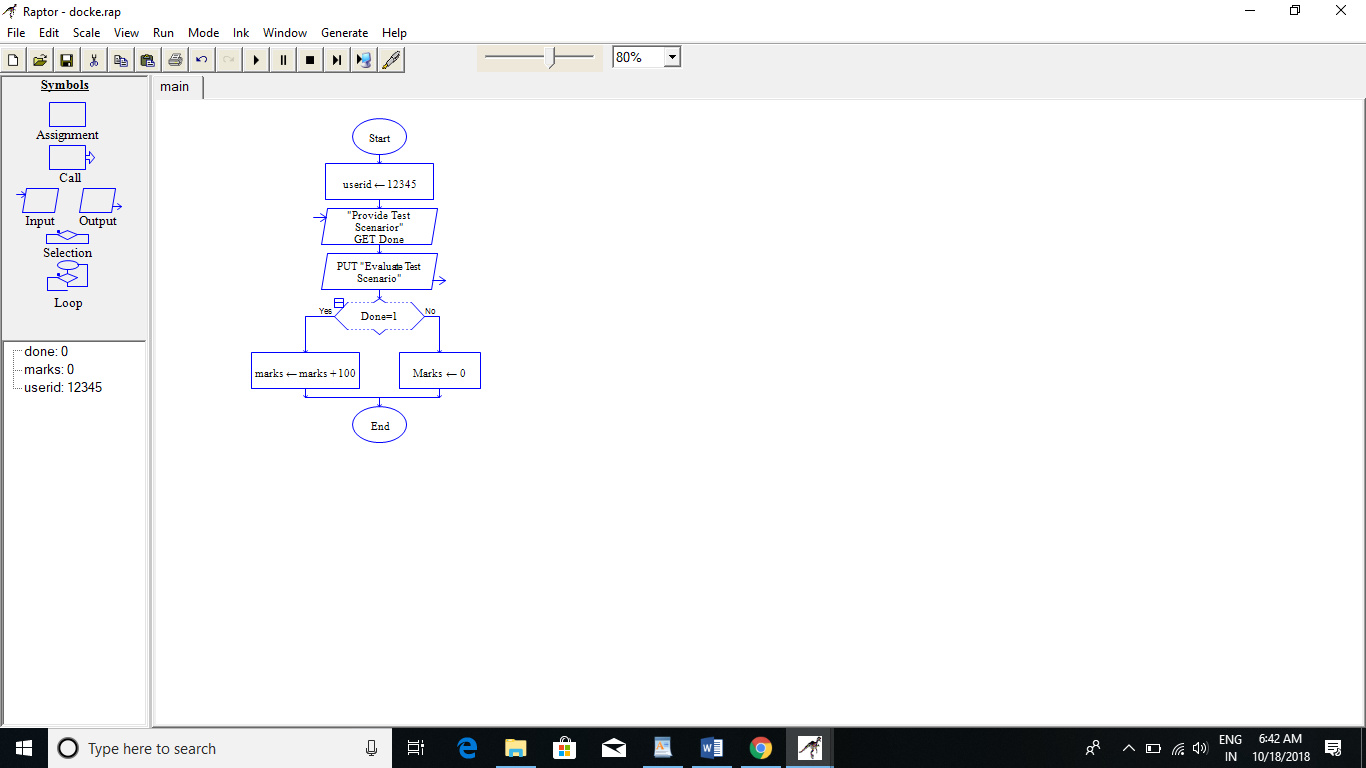
the desired results, the program is tested ok, and problematic otherwise

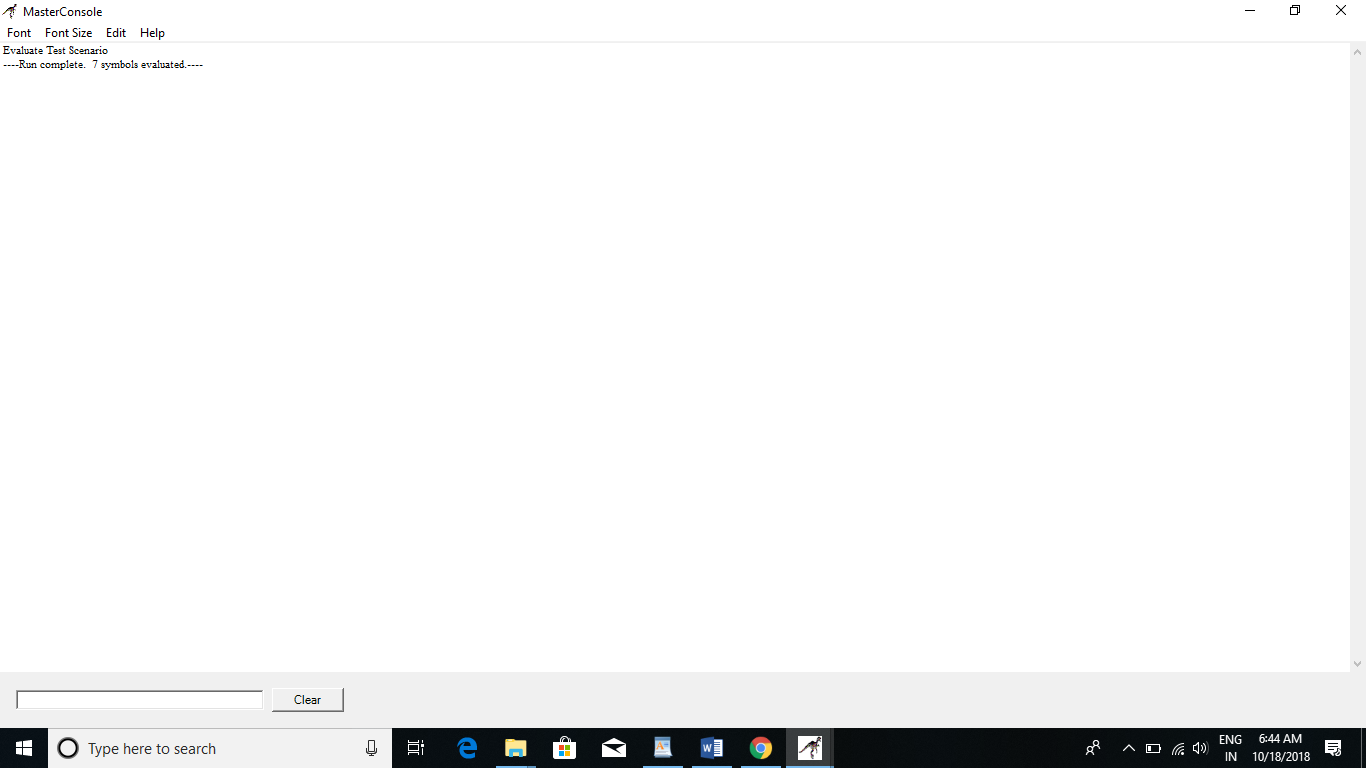
Black-box testing techniques:

Equivalence class

The input is divided into similar classes. If one element of a class passes the test, it is assumed that all the class is passed.

**3.UML Testing:**



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