# **Chapter 5: Testing**

## **Introduction to Testing**

Testing is perform on system to determine the whether the objective are being met or not for checking whether the actual results are as expected results. Testing help in making system error free. Testing can be done manually or by an automated tool where Manual Testing is performed by human that debug codes and errors in software. In other hand, automated testing means using computer programs to execute a system. The testing mainly performed to be ensure that the user wouldn’t face any kind of error.

Testing are of three types listed below:

1. Functional Testing
2. Non-Functional Testing
3. Maintenance

**Types of Testing**

There are various types of testing. Some of them are Unit testing, Integration testing, Acceptance testing, Reliability testing, White box testing, Black box testing, etc. Among these all other types of testing I choose Unit testing and Black box testing for my project.

### **Unit Testing**

### **Black Box Testing**

It is a technique of software testing that examines functionality of an application based on the specification. But in this testing the internal structure, design that are being tested is not known to the tester. It supports in deterring the defect earlier during development phase. End User performs this testing by comparing the actual result and expected result.

