ASSIGNMENT – 5

1) **PREPARE A PPT OF STARTING THE DIFFERENT LEVELS OF TESTING**

Software must go through different testing stages before it can be considered bug-free and ready for deployment. There are generally four levels of software testing, as mentioned below:

1. **Unit Testing**
2. **Integration Testing**
3. **System Testing**
4. **Acceptance Testing**

UNIT TESTING :

Unit testing is done at the code level, where each component is tested individually to ensure their impartiality and analyze their functionality. Automating unit tests is possible and highly recommended in today's fast-paced development environment.

INTEGRATION TESTING :

Integration testing enables software testers to test group units integrated into a system or subsystems; it helps identify any bugs or issues arising from coding errors or integrations between modules. It is possible to automate integration testing.

SYSTEM TESTING :

System testing is performed on an integrated environment comprising the whole application, where all components are assessed against specific business requirements. You can use automation tools for System Testing.

ACCEPTANCE TESTING :

Acceptance testing involves testing the system's **Functional** and Non-functional aspects, such as performance, security, usability, accessibility, compatibility, and reliability. Depending on the system's complexity, it can be done manually or through automation tools.