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## (ii) Integration and System Testing

**Aim:** To write a test case for Integration Testing and System Testing.

**Description:**

## i) Integration Testing:

It is defined as a type of testing where software modules are integrated logically and tested as a group. The purpose of this testing is to expose defects in the interaction between these software modules when they are integrated. Its focus on checking data communication among these modules.

Software engineering defines variety of strategies to execute integration testing viz.

- Big Bang Testing
- Incremental Testing
- Bottom-up Integration Testing
- Top-down Integration Testing
- Sandwich Testing.

- Some of the Example of Integration Testing.

- Its differ from other test case in the sense as it focuses mainly on the interface and flow of data/information between modules.
- Here priority is to be given for the integrating links rather than the unit functions which are already tested.



- **System Testing:**

It is a level of testing that validates the complete and fully integrated software product. The purpose of this is to evaluate the end-to-end system specification. Usually the software is one element of larger computer-based system. Ultimately the software is interfaced with other software/hardware systems. It is actually a series of different tests whose sole purpose is to exercise the full computer based system.

System Testing is divided into two categories

- **Black Box Testing**

- **White Box Testing**

But system testing falls under black box testing category of software testing.

Different types of system testing are:

- Usability Testing
- Load Testing
- Regression Testing
- Recovery & Migration Testing
- Functional Testing
- Hardware / Software Testing