INTEGRATION TESTING

* The purpose of integration testing is to expose faults in the interaction between integrated units
* The interaction testing is the process of testing the interfaces between two software units or modules.

It can be done in three ways :

1. BIG BANG APPROACH
2. TOP DOWN APPROACH
3. BOTTOM DOWN APPROACH

1.BIG BANG APPROACH:

* It is combining all the module once and verifying the functionality after completion of individual module testing.
* This will be done with the help of unit test then we combine all modules once.

2.TOP DOWN APPROACH:

* In top down approach,testing take place from top to down.
* High level modules are tested and the low level modules and finally integrating the low level modules to high level to ensure the system is working as intended.
* Stubs are used as a temporary module,if a module is not ready for integration testing.

Eg:Modules are integrated by moving downwards through the control hierarchy,beginning with main program.

* Stubs are replaced with actual components are at a time in a “depth-first” or breadth.

3.BOTTOM DOWN APPROACH:

* Here testing takes place from to bottom to up approach
* Lowest level modules are tested first and then high level moduels.And finally integrated the system is working as intended.
* Drivers are used as a temporary module for integration testing.
* Drivers are replaced one at a time “depth-firt”
* Workers modules are grouped into clusters and integrated