

Good Morning



Welcome to the Class



Department of Computing and Information System



Software Processes Model

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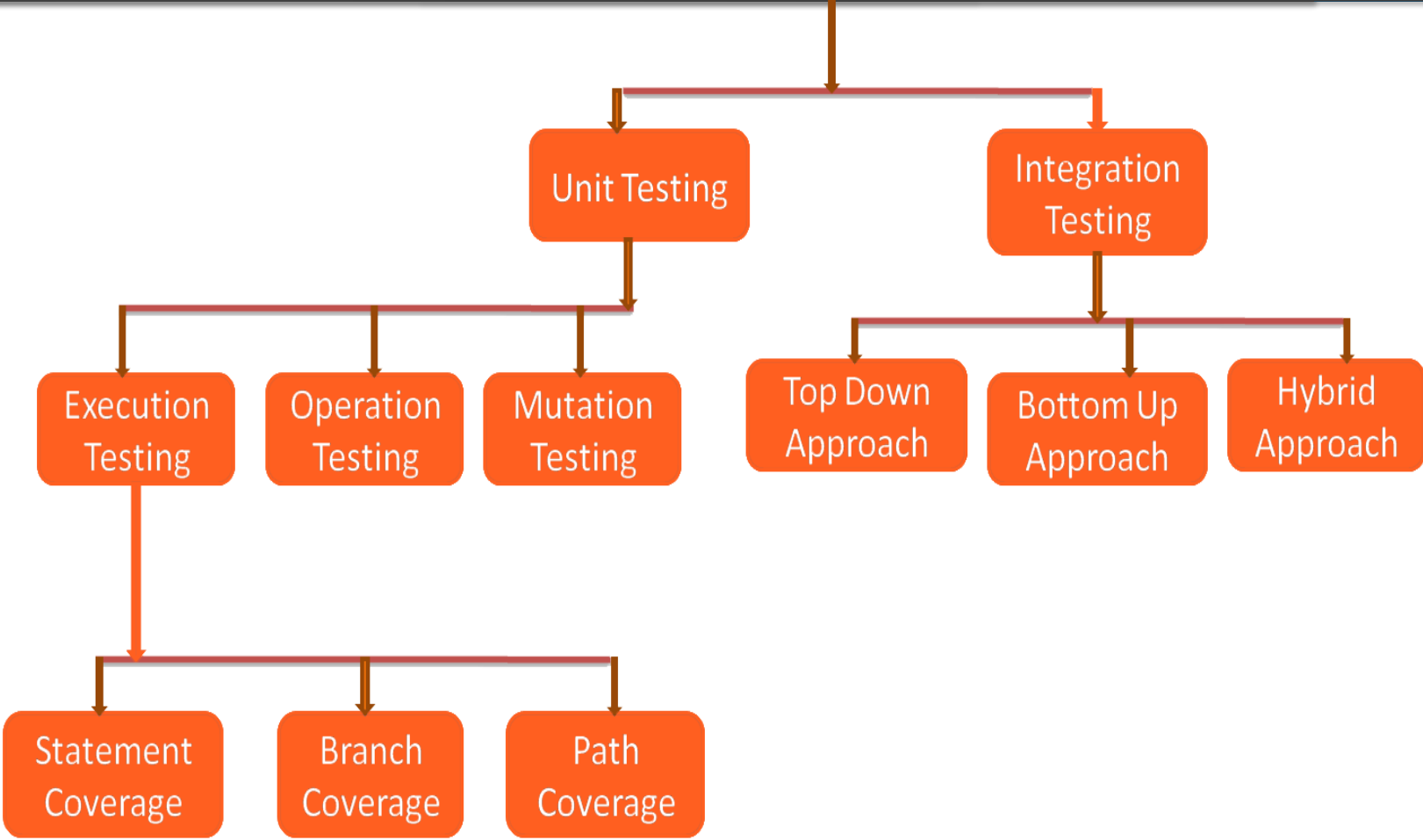
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White Box Testing





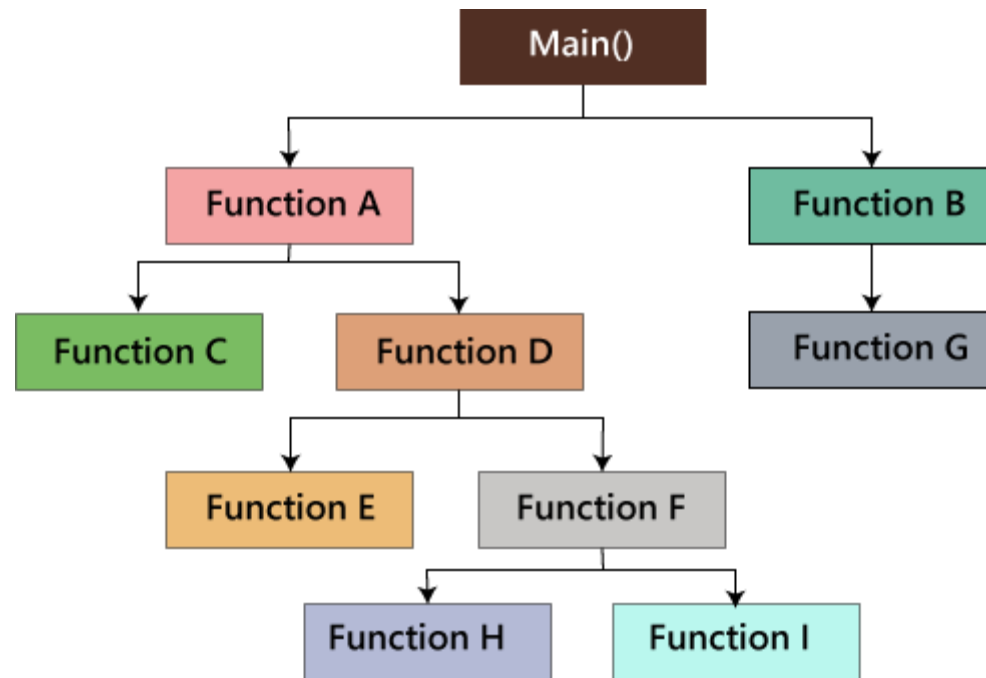
White Box Testing

The white box testing contains various tests, which are as follows:

- Path testing
- Loop testing
- Condition testing

Path testing

In the path testing, we will **write the flow graphs and test all independent paths**. Here writing the flow graph implies that **flow graphs** are representing the **flow of the program** and also show how every program is added with one another as we can see in the below image:



Loop testing

In the loop testing, we will test the loops such as while, for, and do-while, etc. and also check for ending condition if working correctly and if the size of the conditions is enough.



2. while(50,000)
3.
4.
5. }

We cannot test this program manually for all the 50,000 loops cycle. So we **write a small program that helps for all 50,000 cycles**, as we can see in the below program, that test P is written in the similar language as the source code program, and this is known as a Unit test. And it is written by the developers only.

1. Test P
2. {
3.
4. }

Condition testing

In this, we will test all logical conditions for both **true** and **false** values; that is, we will verify for both **if** and **else** condition.

For example:

1. if(condition) - true
2. {
3.
4.

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Thanks to All