1.Java IF Statement

**Syntax:**

**if**(condition){

//code to be executed

}

## 2. Java IF-else Statement

**Syntax:**

**if**(condition){

//code if condition is true

}**else**{

//code if condition is false

}

3.Java IF-else-if ladder Statement

The if-else-if ladder statement executes one condition from multiple statements.

**Syntax:**

**if**(condition1){

//code to be executed if condition1 is true

}**else** **if**(condition2){

//code to be executed if condition2 is true

}

**else** **if**(condition3){

//code to be executed if condition3 is true

}

...

**else**{

//code to be executed if all the conditions are false

}

|  |  |
| --- | --- |
| Method Overloading | Method Overriding |
| Class has multiple methods, same name ,different parameters | If subclass (child class) has the same method as declared in the parent class. |
| **Method overloading is used for compile time polymorphism.** | **Method overriding is used for runtime polymorphism.** |
| **Parameter must be different.** | **Parameter must be same.** |

# \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*By Sir\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

## 🡪\*Object Repository:-A common storage location for all objects.

## \*Advantage of Object Repository:-Segregation of objects from test cases.

## \*Segregation:-Separation of things/objects from main body or group.

## \*Assertion :- Assertion are used for validating a test case and helps us understand if a test case has passed or failed. The assertion is considered to be met if the actual result of an application matches with that of the expected result.

## 2 Types:-

### 1) Hard Assertions (Or Simply Assertions):-

## Hard assertions usually throw an Assertion Error whenever an assertion condition has not been met. The test case will be immediately marked as Failed when a hard assertion condition fails.

### 2) Soft Assertions:-

## Soft Assertions are the type of assertions that do not throw an exception automatically when an assertion fails unless it is asked for. This is useful if you are doing multiple validations in a form, out of which only a few validations directly have an impact on deciding the test case status.