Testing : finding the defect or error or bugs in the application is known as testing.

If we can run the application indirectly we are testing the application.

class Operation {

public int add(int a, int b) {

int sum = a+b;

return sum;

}

}

2 types of testing

1. Black box testing :

Input process output

1. White box testing

Input process output

Unit testing : it is a type of software testing which help to test function functionality working or not. Unit means smallest code which working independently with of method or functions.

In java to do unit testing we use Junit one of the open source testing framework.

Junit version 🡪3.x they provided classes and interfaces

Junit version 🡪4.x they provided annotation.

Junit version 🡪 5.x they provided annotation as well as it support java8 features.

jUnit provided two classes

test case : it is a type of class which contains more than one method with @Test annotation which help to do the testing for particular method.

test suite : it is type of class which help to run more than one test case classes.

Spring boot testing

