#### BLACK BOX TESTING

- · In Black Box Testing, the tester tests an application without The knowledge of the internal markings of the application being rested.
- · acte is entered into the opplication of the authorse is compared with the expected results; what the Brogram does with the Input date or how the Program arrives at the autput date is not a concern for the Tester performing Black Box Testing

BBT is also known as Functional testings which tests the functionality of a known.

Since BBT is not concerned with underlying code, then the techniques can be devieved from the requirement documents or design specification

### Block Advantages of BBTI

- 1) The test is unbiased becoze the designer 4 tester are independent of each other
- 3 The tester does not need knowledge of any specific programing language
- 3 Test cases can be designed as soon as the specifications are complete

# Disadvantages of BBT1

- 1 Test cases are difficult to design
- 3) Testing every Passible I/P stream is appealistie.
- 3) Test can be sedundant of the In designer has already hun a test case

#### TESTING TECHNIQUE

## 1. EQUIVALENCE PARTITIONING TEST TECHNIQUES

· Equivalence Partitioning is a common black box test technique that aims to reduce the number of redundant test cases by elemenating those that generate the same of Ado not necessarily reveal defeds in a program functionally.

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hetween -10,000 to +10,000 can be expected to be able to handle regative integers, Zero 4 Pasitive Integers.

Therefore, the set of I/P values can be divided ente three Partitions
From -10,000 to -1, 0 & From 1 to 10,000

· Morever, it is expected that the system to behave the same for values inside each Partition is the way the system handles -6391 will be treated the same as -9. We wise, Positive integers of \$3567 will be treated the same by the system.

Example - Technique does not apply to numbers only. Technique can apply to any set of data.

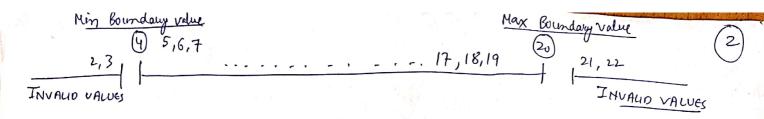
Example - an application that reads in images afonly 3 types if jkg, gif & Prog then 3 sets of valid equivalent classes can be identified.

In image with a splif extension.

An image with a splif extension. (Graphic Interchange Firmal)

An image with a string extension.

(2) BOUNDARY VACUE ANALYSIS - is a Sw Testing Technique in which tests are designed to include sepresentatives of boundary values in a range. To test an IP field



	PARTITIONS	TIPVALUE	EXPECTED RESULT
-ve Test	Below Hin Burnday vole	3	PAIL
	Nin Bounday Value ABove Min	4 5	PASS PASS
	BELOW Max Bound value	19	PASS
•	Max Boundary value	20	PASS
-Ne TEST	ABOVE MAX BUUDARY VALUE	24	PAIL