

If you wanted to check that the bank was handling your account correctly what valid input partitions might you use? 1) One of the fields on a form contains a text box which accepts numeric values in the range of 18 to 25. Identify the invalid Equivalence class.

- a) 17
- b) 19
- c) 24
- d) 21

Ans : a) 17

2) Input Box should accept the Number 1 to 10. Identify Equivalence partitioning and Boundary values for testing

Ans : Equivalence partition-

- Any value Less than 1
- **1-10**
- Any value More than 10

3) Why Equivalence & Boundary Analysis Testing is used?

Ans: Equivalence Partitioning is used to reduce the total number of test cases to a finite set of testable test cases, still covering maximum requirements.

Boundary value analysis is used to find the errors at boundaries of input domain rather than finding those errors in the center of input.

4) Write Test Cases For This Scenario:

If A Job Fails It Should Get Restarted Again. This Should Happen For Three Times. If It Fails again, then It should quit

Ans : Test Case Id:1

Condition: If Job doesn't fail,

Expected: no need to restart, job is executed.

Test Case Id:2

Condition: If Job fails for first time,

Expected: it should restart, job is executed.

Test Case Id:3

Condition: If Job fails for second time,
Expected: it should restart, job is executed.

Test Case Id:4

Condition: If Job fails for third time,
Expected: it should restart, job is executed.

Test Case Id:5

Condition: If Job fails for fourth time,
Expected: it should quit, job is not executed.

5) Write The Test Case/scenario For A Login Page?

Ans : Test cases for login page are :

1. Login page should load properly ,having all the required fields
2. All the text field must be responsive as user click on it
3. Submit button and any other button must be responsive and clickable
4. For email field,It should not accept the email without valid credentials
5. For password field,it must be encrypted,it must be strong
6. If either email or password field is empty ,it must not be submitted

6) What Are The Test Cases/scenario For Mouse? (To verify the functionalities of a mouse)

Ans :Check if double click is working fine

Verify that left click and right click buttons are working fine

Verify the time duration between two left clicks, in order to consider it as double click

Check if scroll is present at the top or not

Verify the speed of mouse pointer

Check the pressure required for clicking the mouse buttons

7) Write test cases/scenarios to verify the functionality of a printer?

Ans: TestCaseld1.Condition:Connect wire of the printer to the electric socket

Expected:Printer Working

TestCaseld2.Condition:Connect to a computer system .

Expected:Printer Working

TestCaseld3.Condition:Taking blank pages as an input resource

Expected:Printer Working

TestCaseld4.Condition:Availability for both coloured and blank and white ink.

Expected:Printer Working

TestCaseld5.Condition:Correct command from the computer.

Expected:Print Correct Document

TestCaseld5.Condition:Incorrect command from the computer.

Expected:Should not print

TestCaseld7.Condition:Only single print for single command

Expected:Printer Working

8) Write down test case/scenarios to list down possible steps to test a smart phone

Ans: TestCaseld: 1

Condition: Pressing the Power Button if turned Off

Expected: Smartphone Starts or Turns On

TestCaseld: 2

Condition: Tap or Touch the Screen

Expected: Smartphone responds.

TestCaseld: 3

Condition: Play some audio

Expected: Receive a Voice output

TestCaseld: 4

Condition: Press Volume Button

Expected: Volume increases/ decreases

TestCaseld: 5

Condition: Take photos/videos from Camera

Expected: Photos/videos are saved in the gallery

TestCaseld: 6

Condition: Record Audio

Expected: Audio gets recorded

TestCaseld: 7

Condition: Play songs using Earphones

Expected: Audio output received, hence earphone jack works

TestCaseld: 8

Condition: Turn on Wifi

Expected: Smartphone gets connected to wifi, hence the internet should work

TestCaseld: 9

Condition: Transferring/Receiving media via Bluetooth

Expected: Media is transferred/received with a success message

TestCaseld: 10

Condition: Installing Application

Expected: Application starts

TestCaseld: 11

Condition: Pressing the Power Button if turned On

Expected: Smartphone Turns Off

9) There is a text box which accepts numbers from 1-10. List down the test data which needs to be tested for Boundary value analysis.

Ans :,1,9,10,11

10) Suppose you have a bank account that offers variable interest rates:

5% for the first \$1000 credit;

10% for the next \$1000;

And 15% for the rest.

If you wanted to check that the bank was handling your account correctly what valid input partitions might you use?

Ans: 0-1000,1001-2000,2001-infinite

11) A mail order company charges \$2.95 postage for deliveries if the package weighs less than 2 kg, \$3.95 if the package weighs 2 kg or more but less than 5 kg, and \$5 for packages weighing 5 kg or more.

Generate a set of valid test cases using equivalence partitioning.

Ans : 0-2,2-5,5-infinite

12) Boiling point of water is at 100 degrees Celsius. Determine the boundary values

Ans: 99,100,101

13) Exam pass – for 40 marks; merit at 60 and above; and distinction at 80 and above.

Determine the boundary values

Ans:

For pass:39,40,41

For merit: 59,60,61

For distinction : 79,80,81

14) Order numbers on a stock control system can range between 10000 and 99999 inclusive. Which of the following inputs might be a result of designing tests for only valid equivalence classes and valid boundaries:

- a) 1000, 5000, 99999
- b) 9999, 50000, 100000
- c) 10000, 50000, 99999
- d) 10000, 99999
- e) 9999, 10000, 50000, 99999, 100000

Ans : e)9999,10000,50000,99999,100000

15) A program validates a numeric field as follows:

Values less than 10 are rejected, values between 10 and 21 are accepted, values greater than or equal to 22 are rejected. which of the following input values cover all of the equivalence partitions?

- a. 10,11,21

- b. 3,20,21
- c. 3,10,22
- d. 10,21,22

Ans : c)3,10,22

16) Which test cases are written first: white boxes or black boxes?

Ans: White Box test cases are written first because they are performed by the developer.

17) Can you explain requirement traceability and its importance?

Ans: Requirements traceability describe and follow the life of a requirement, in both forwards and backward direction.

Performing a requirements traceability analysis is an important part of the software engineering process as it ensures that all of the requirements have been adequately considered during each phase of the project and that there isn't any scope that the developed system missed any requirements. The activity also ensures that all of the requirements are internally consistent with each other and support the business requirements, goals and objectives.