

# Test Case Beta

## Introduction

This is a testcase set for intermediate developers in any oops based language(c#, java or any alternates) unless specified. Please select one of the testcase and publish your code in GITHUB. for more information, please refer the instructions for testcases.

Please read the Publishing and evaluation details before sending us your response.

## Testcase 01 - GUI Item Builder

### Note: Only C# platform with WPF should be used

- Create a basic form with the following,
  1. *Text box*- Can accept any character upto length 10.
  2. *Drop Down*- Have options of your choice
  3. *Radio button*- Have options of your choice
  4. *Email field*- Email field should use the following pattern:
    - First 2 characters should be alphabets out of which the second letter should be uppercase
    - The next 2 characters should be in number format out of which the first integer should be a non-zero value.
    - Following should be the '@' symbol and the domain "co.in".
    - Anything other than the specified format should be considered invalid
- A submit button should be present. Should initially be greyed out and only enabled when all the validation criteria above are met(all fields are mandatory). Otherwise, an error message should appear right below the field in the HexCode: #B22222 or RGB(178, 34, 34).

- After clicking the submit button, a dummy progress bar should appear and animate from 0 to 100%.

## Test Case 02 - GUI Item Validator

- Create 2 drop down menus as following,
  1. States
  2. Cities
- After selecting the State from the first dropdown, the second drop down should get populated with the cities appropriate to the selected state.
- The Cities dropdown should remain greyed out until the States dropdown gets selected.
- An "OK" button should be below the Menus.
- Both the dropdown should be validated for empty data when the Button is clicked.
- If the above conditions are met, print the selected State and City.

## Test Case 03 - DLL Access

**Note: For this testcase please download the "Testcase\_DLL" file and store it in your physical drive before starting with the testcase process.**

Create an application that will be able to

- import the given .dll file to your project.
- refer the .dll classes for the operations inside them (For more information about the dll please refer the DLL Documentation attached)
- act as a basic calculator application with the features to input operands and view results of the operations in the app (Console/GUI).