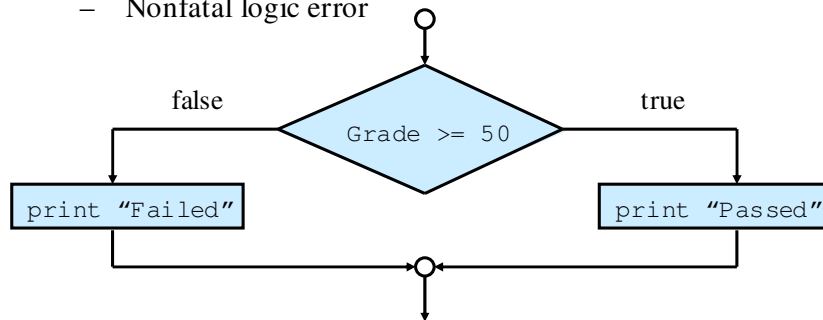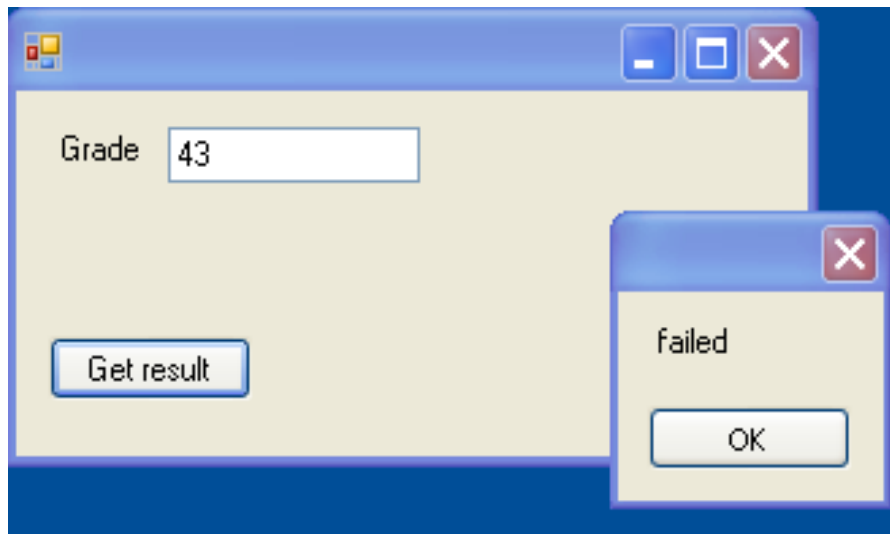## 2. The double selection **`if/else`** structure

- – There are two choices
- – Structures with many lines of code need braces { }
  - • Can cause errors
    - – Fatal logic error
    - – Nonfatal logic error

```
private void ButGetResult_Click(object sender, EventArgs e)
{
        int grade;
        grade = Int32.Parse(TxtGrade.Text);
        if (grade >= 50)
            MessageBox.Show("Passed");
        else
            MessageBox.Show("failed");
}
```

3.   The multiple selection **if/else** if structure
–   There are more then two choices
–   Structures with many lines of code need braces { }
•   Can cause errors
–   Fatal logic error
–   Nonfatal logic error
–   Nested structures can test many cases