CO453 Application Programming

Week 12 – Etch-a-Sketch Project

.NET part 7

Windows Programming

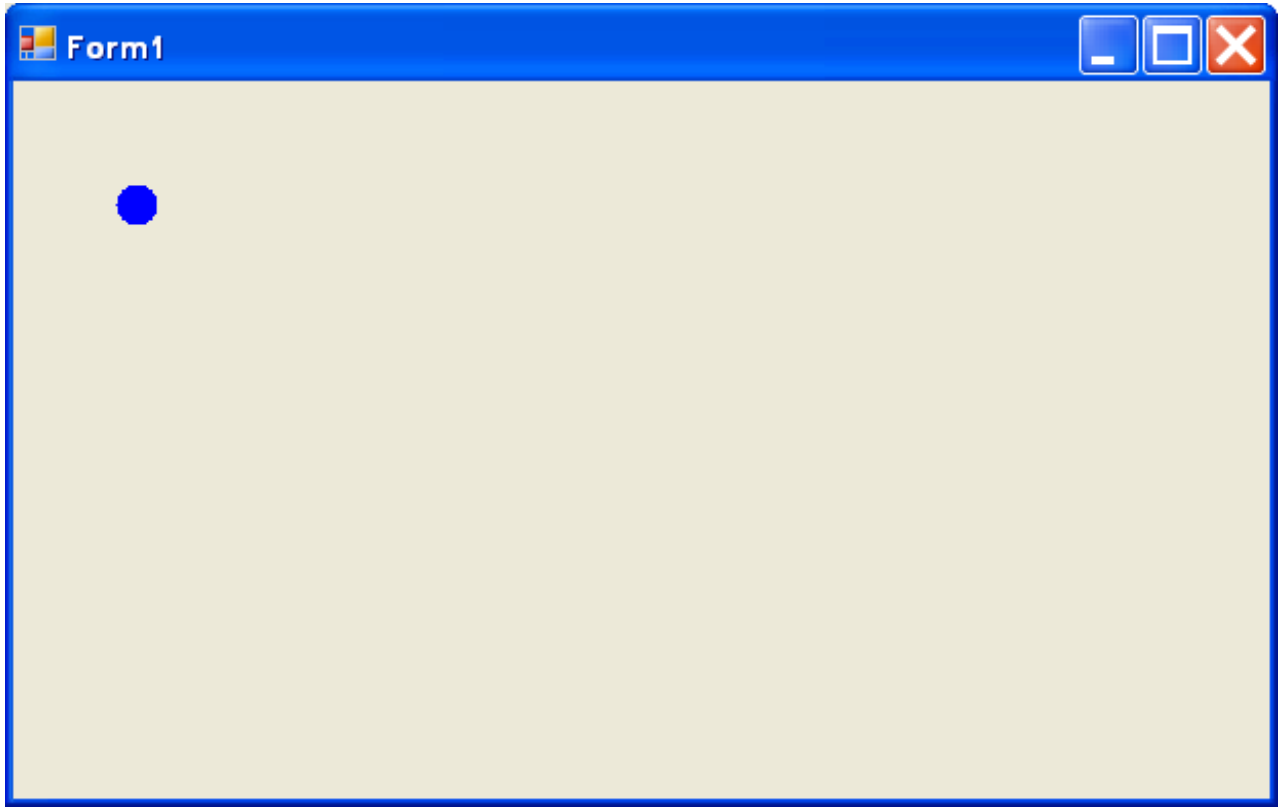
C#
.NET
Project

Etch-A-Sketch: The Project

The Basic Program

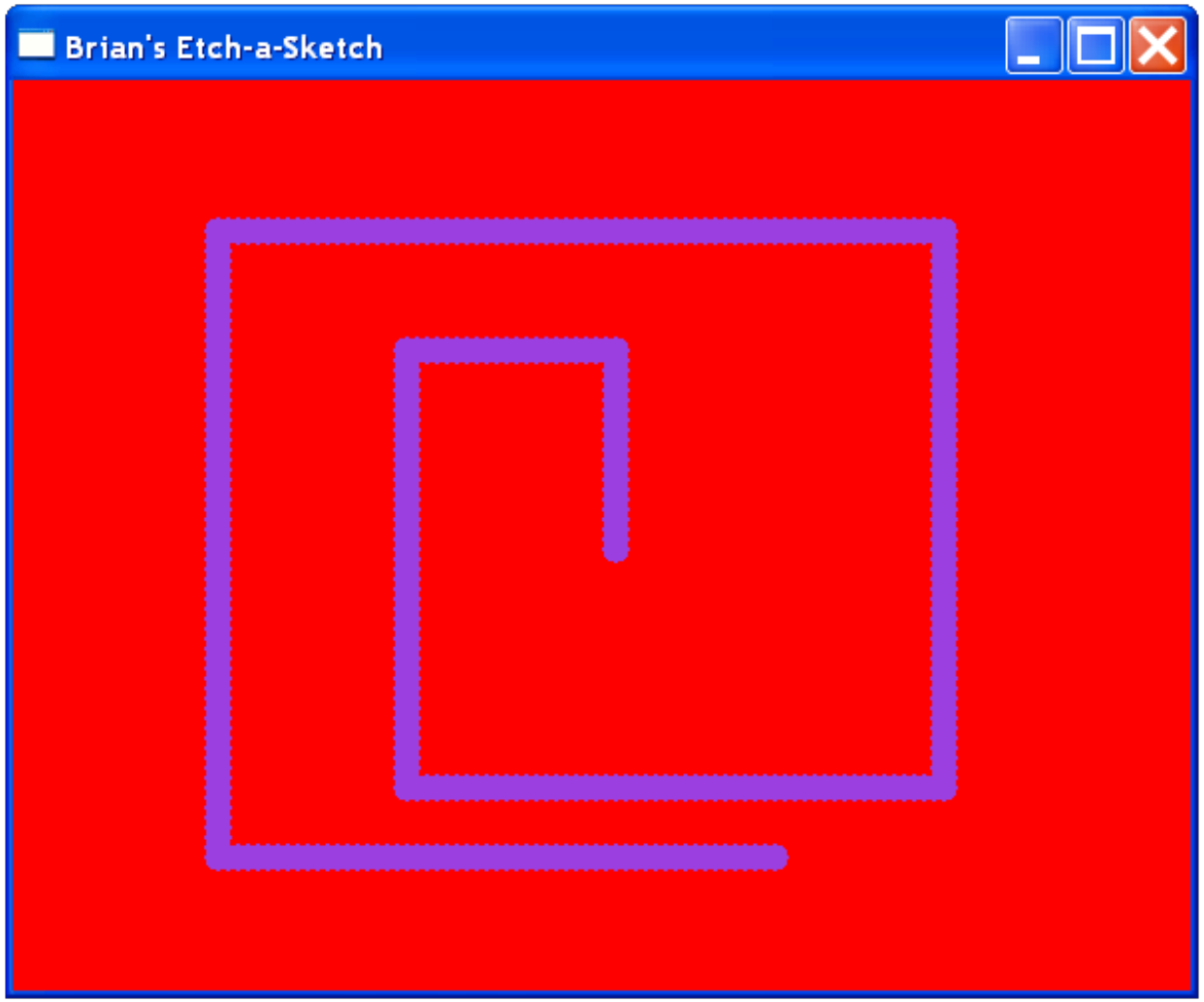
The main window

A Blue Circle centred on a Blank Form



Program Running

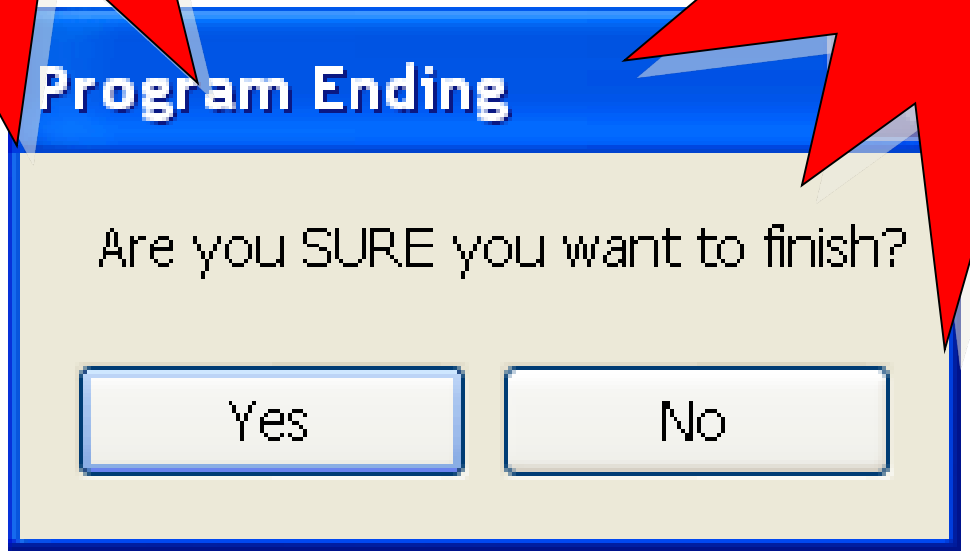
Draw using Up, Down, Left and Right arrow keys



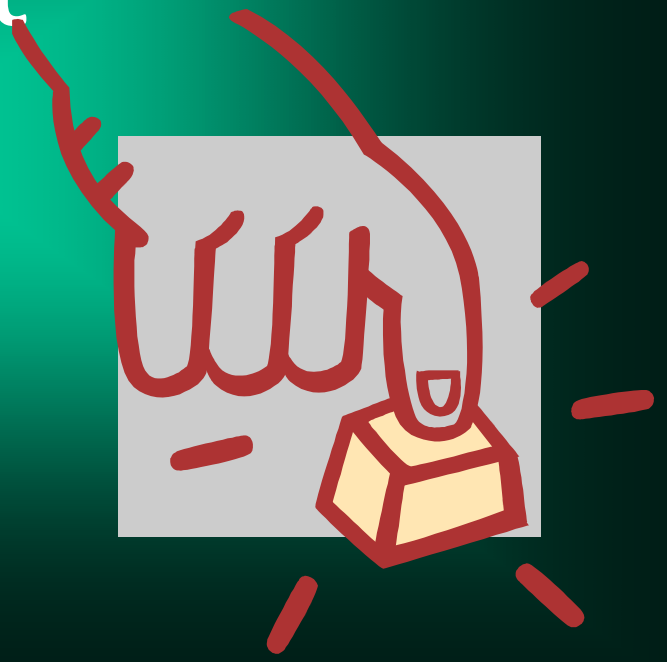
C and Esc keys

Esc key quits the program

C key clears the screen



Reminder:
How to Detect
A Key Press



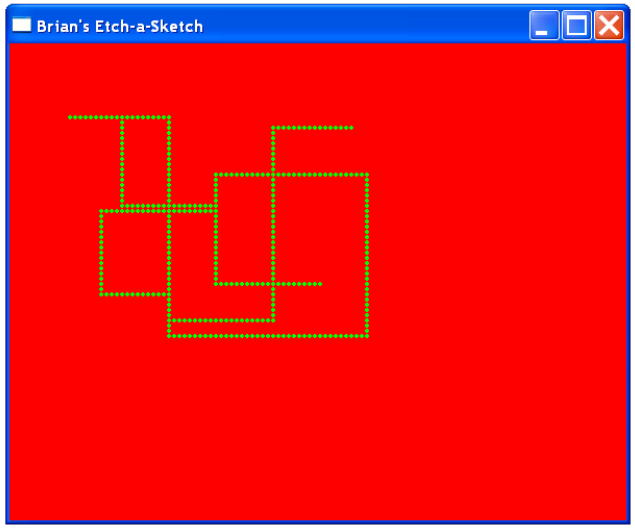
Overriding ProcessCmdKey() method

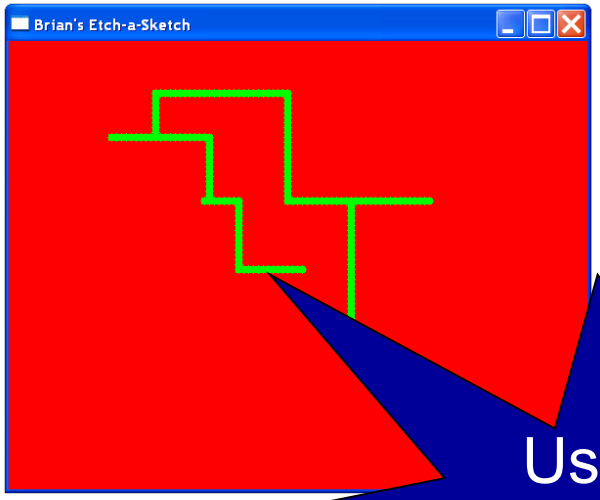
```
protected override bool ProcessCmdKey (ref Message msg,
                                       Keys keyData)
{
    string input;
    input = keyData.ToString();          // collect the key data

    if (input == "B")
    {
        MessageBox.Show("You pressed the B key");
        return  true;
    }

    return  false;          // return false if no key pressed
}
```

Extension Work-1

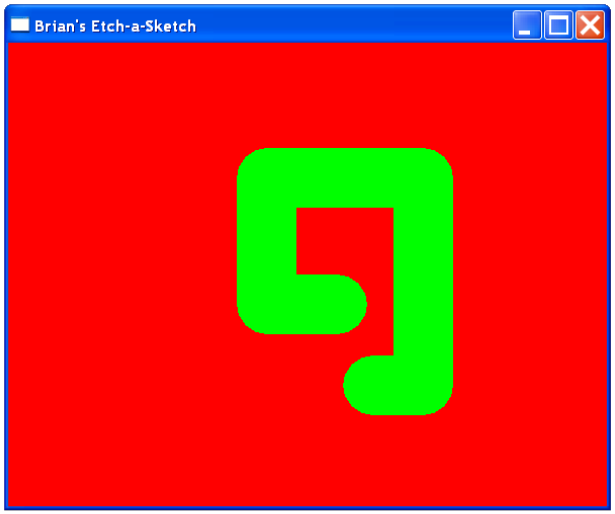
B, S and F1

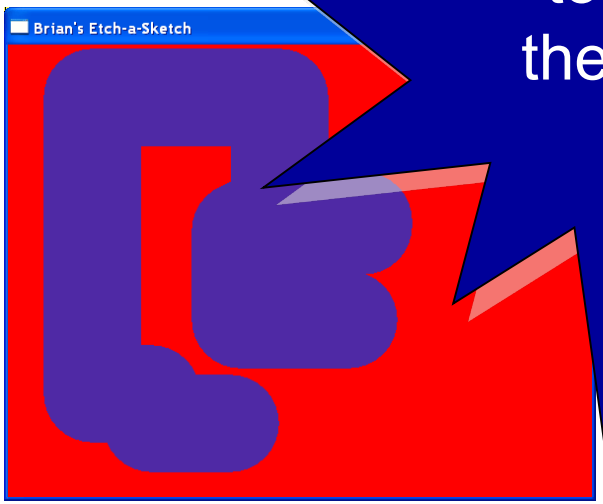
Use B and S to make circle bigger/smaller





Use **F1** key to change the drawing colour





Extension Work-2

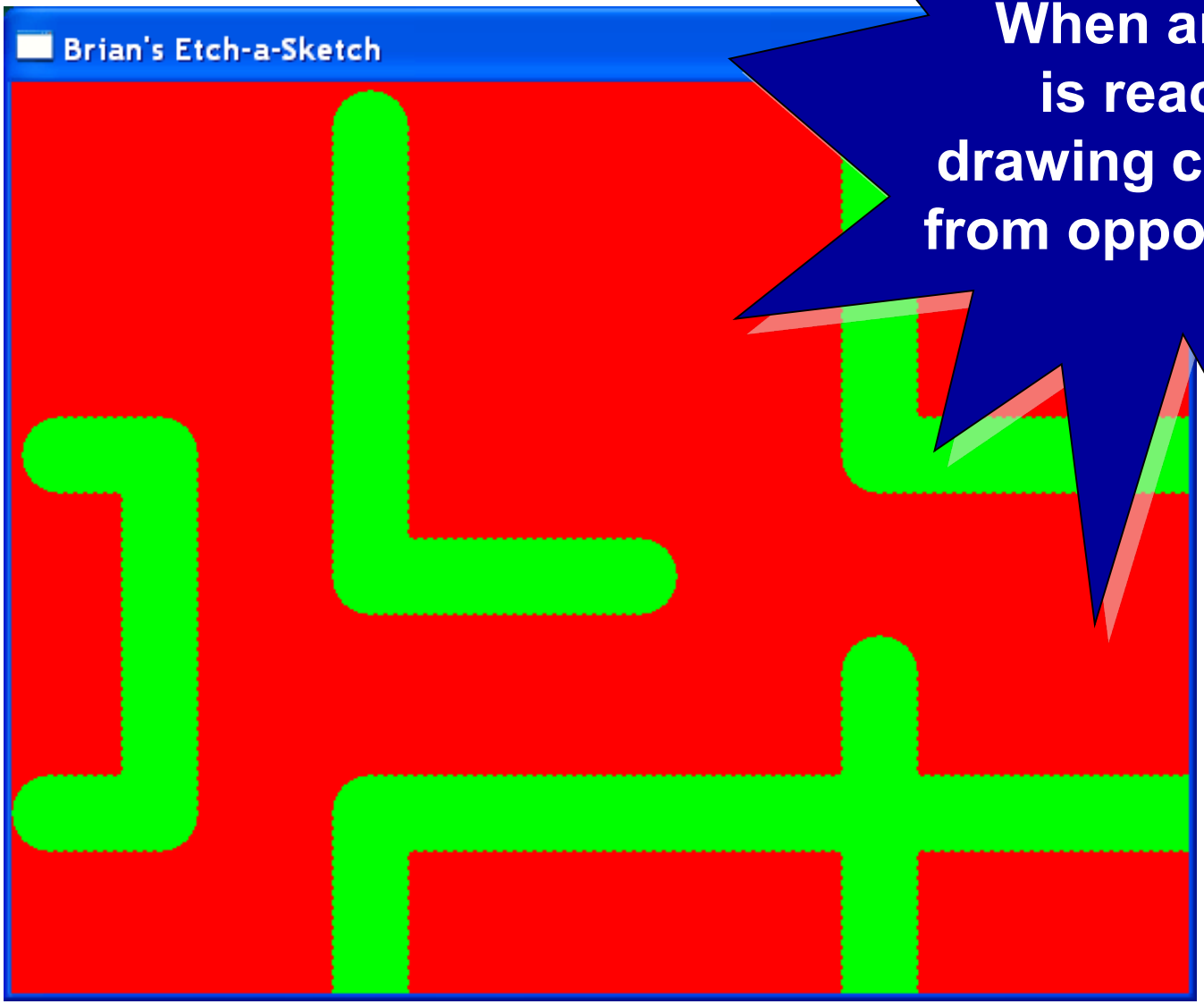
Drawing Diagonally

Set up 4 keys to do this

Use function keys
to change
the background
colour

Extension Work-3

Hitting an Edge



When an edge is reached, drawing continues from opposite edge

Add a Splash Screen

My Great EtchaSketch

Click here to enter :

Project Deliverables

Your Log Book

1. **Source Code (fully commented)**
2. **Author name, date, project title etc.**
3. **Sample outputs from program execution**
4. **Class Diagrams**
5. **Completed Test Plans**

The Last Slide