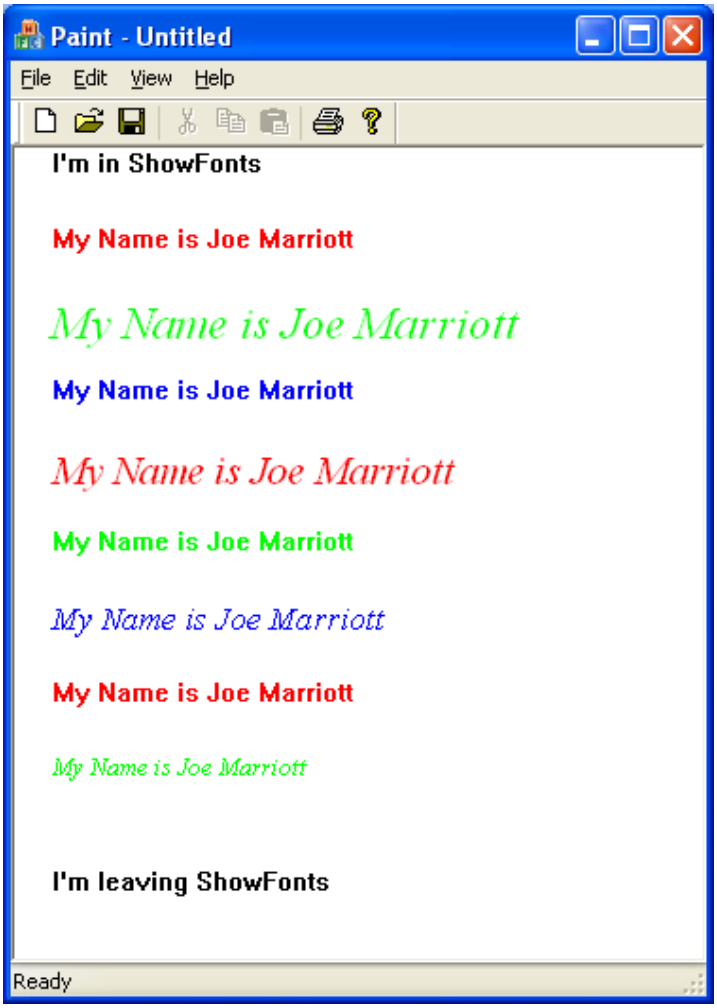
04.1205.Paint2 :: Drawing with Fonts, Pens, and Brushes :: Phase 2

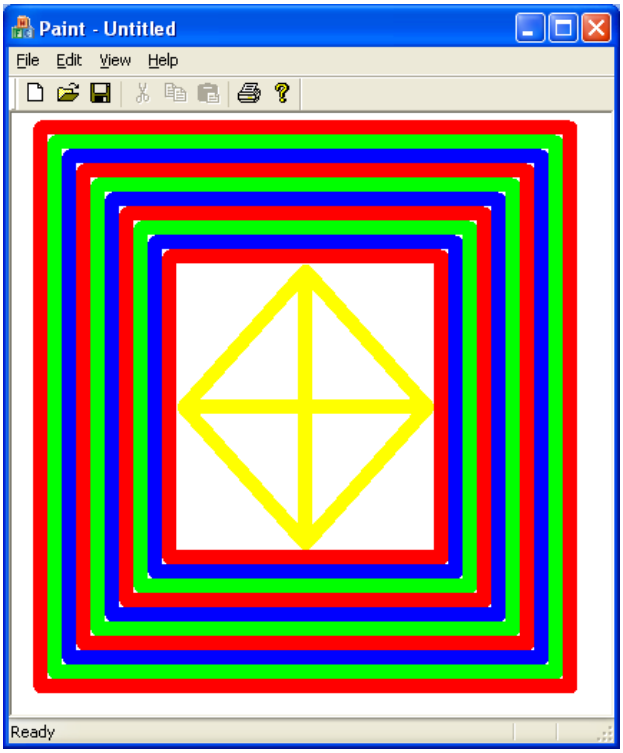
Complete Lab Paint1. Save a backup!

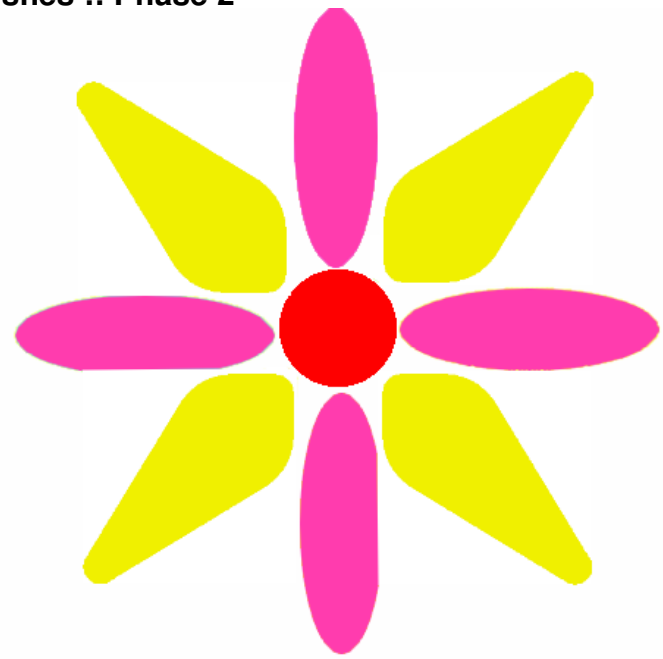
Modify your program accordingly…

1. Change **ShowFonts** so that it alternates "My Name is *YourName*" as before, but in a repeating Red, Green, Blue format, and in italics. Also, the "new font" is to start off as height 30 as before, but decrease by 3 for each successive one displayed. The height of the "old font" stays the same. (Hint… to solve the problem of the decreasing font size, you will need to create smaller and smaller fonts inside the loop. Just modifying `MyNewLogFont.lfHeight` inside the loop will not do the trick! This is similar to how you created different pens in ShowPens)

2. Change **ShowPens** so that ***only using*** the **MoveTo** and **LineTo** functions, it produces 10 squares in decreasing size and alternating colors Red, Green, Blue. Line width should be 10. Not really hard, just a bit tricky… sort of like an EtchASketch! You are also required to draw a unique pattern in the middle… your choice, be creative, show me you know more than drawing straight lines across or up and down!







3. Change **ShowBrushes** so it draws me a pretty flower with lots of colors and patterns. Shown here is only a "sample"… use your artistic skills to impress me. A rose by any other name is a… good mark???

How did I draw that fancy petal? Do the other 3!

```
CPen* pMyOldPen = pDC->GetCurrentPen();
CBrush* pMyOldBrush = pDC->GetCurrentBrush();

// The Pen draws the outside of the ellipse, the Brush fills in the rest.
//
// Try pen color RGB(240,240,0) to create a petal of solid color.

CPen        MyNewPen(PS_SOLID, 2, RGB(255,0,0));      // Red pen
CBrush      MyNewBrush RGB(240,240,0);                // Yellow brush

int Bigger=0;     // Used to change the size of the ellipses.

pDC->SelectObject(&MyNewPen);
pDC->SelectObject(&MyNewBrush);

for (int i=0; i<50; i++){ // Draw 50 ellipses of different sizes and positions.

      // An ellipse with equal proportions is a circle
      pDC->Ellipse(0+(i*4),0+(i*4),40+(i*4)+Bigger,40+(i*4)+Bigger);

      // Use conditional assignment to increase or decrease value of Bigger.
      Bigger += ( i < 25 ) ? 4 : -4;

      Sleep(400); // Pause for 400 milliseconds to see the image being constructed.
                  // Disable in final version.

}

// This is provided to give you some inspiration to start the next petal.
// Once you have everything working, feel free to change the actual position.
// Unlike the previous petal, this one should be constructed
// going down and to the left, instead of down and to the right.
pDC->Ellipse(490,0,450,40);


// Restore the default pen & brush
pDC->SelectObject(pMyOldPen);
pDC->SelectObject(pMyOldBrush);
```

.Z) Checkpoint ::

You should now know how to generate an SDI Windows Application where you can control the initial size and placement of the Window, and then draw on the screen using various tools.