```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
namespace RadioActiveDecay
    public partial class Form1 : Form
        public Form1()
        {
            InitializeComponent();
        private void button1_Click(object sender, EventArgs e)
            double[] N = new double[500];
            double[] t = new double[500];
            N[0] = 100;
            double T=0.5, dt=0.01;
            for (int i = 0; i < N.Length - 1; i++)</pre>
            {
                N[i + 1] = N[i] - (N[i] / T) * dt;
                t[i + 1] = t[i] + dt;
            Graphics gg = CreateGraphics();
            SolidBrush sb = new SolidBrush(Color.DarkOrange);
            for (int i = 0; i < N.Length; i++)</pre>
            {
                gg.FillEllipse(sb,200+(float)t[i]*50,250-(float)N[i]*5,5,5);
            }
        }
    }
}
```

