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Practical no 2

AIM: Setup DirectX 11, Window Framework and Initialize Direct3D Device

Steps:-

- 1. Create a new project and select a windows form application(.Net Framework 2.0-3.5).
- 2. Right click on the properties → click on open → click build → select platform target → x86 or add new
- 3. Click on view code on form 1(design) or press F7.
- 4. Go to the solution explorer \rightarrow right click on project name \rightarrow select add reference.
- 5. Click on browse and add the required dll files.
- 6. Code the required files.
- 7. Add the paint method for changing the appearance.
- 8. Change the window name and icon if possible.
- 9. Disable the Exception Settings option such as LoaderLock.
- 10. Run the app.

Code:-

Program.cs file

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Windows.Forms;
namespace WindowsFormsApp5
    static class Program
        /// <summary>
        /// The main entry point for the application.
        /// </summary>
        [STAThread]
        static void Main()
            Application.EnableVisualStyles();
            Application.SetCompatibleTextRenderingDefault(false);
            Application.Run(new Form1());
        }
    }
```

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Form1.cs file

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Windows.Forms;
using Microsoft.DirectX.Direct3D;
namespace WindowsFormsApp5
   public partial class Form1 : Form
        Microsoft.DirectX.Direct3D.Device device;
        public Form1()
            InitializeComponent();
            InitDevice();
        private void InitDevice()
            PresentParameters pp = new PresentParameters();
            pp.Windowed = true;
            pp.SwapEffect = SwapEffect.Discard;
            device = new Device(0, DeviceType.Hardware, this, CreateFlags.HardwareVertexPro-
cessing, pp);
        }
        public void Render()
            device.Clear(ClearFlags.Target, Color.RoyalBlue, 0, 1);
            device.Present();
        }
        private void Form1_Paint(object sender, PaintEventArgs e)
            Render();
   }
}
```

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<u>Output</u>

