Roll No: 713 Pg.No:

Date: 08/10/2020

#### Practical no 6

**AIM:** Specular Lightning (Programmable Spot Lightning using Direct3D 11)

## 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;
using Microsoft.DirectX.Direct3D;

namespace WindowsFormsApp6
{
    static class Program
    {
        [STAThread]
        static void Main()
        {
            Application.EnableVisualStyles();
            Application.SetCompatibleTextRenderingDefault(false);
            Application.Run(new Form1());
        }
    }
}
```

Game Programming	T.Y.B.S.c.C.S.Sem-V
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Roll No: 713 Pg.No:

Date: 08/10/2020

# Form1.cs file

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Text;
using System.Windows.Forms;
using Microsoft.DirectX;
using Microsoft.DirectX.Direct3D;
namespace WindowsFormsApp12
    public partial class Form1 : Form
        Microsoft.DirectX.Direct3D.Device device;
        Microsoft.DirectX.Direct3D.Texture texture;
        Microsoft.DirectX.Direct3D.Font font;
        public Form1()
            InitializeComponent();
            InitDevice();
            InitFont();
            InitTexture();
        }
        private void InitFont()
            System.Drawing.Font f = new System.Drawing.Font("Arial", 16f, FontStyle.Regular);
            font = new Microsoft.DirectX.Direct3D.Font(device, f);
        private void InitTexture()
            texture = TextureLoader.FromFile(device, "E:\\tycs\\gp prac\\prac6
vscode\\pic.jpg", 400, 400, 1, 0, Format.A8B8G8R8, Pool.Managed, Filter.Point, Filter.Point,
Color.Transparent.ToArgb());
        }
        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);
        private void Render()
            device.Clear(ClearFlags.Target, Color.CornflowerBlue, 0, 1);
            device.BeginScene();
            using (Sprite s = new Sprite(device))
```

**Roll No: 713** Pg.No: \_\_\_\_

Date: 08/10/2020

#### **Output:**

