

Introduction to Game Development

LAB-1

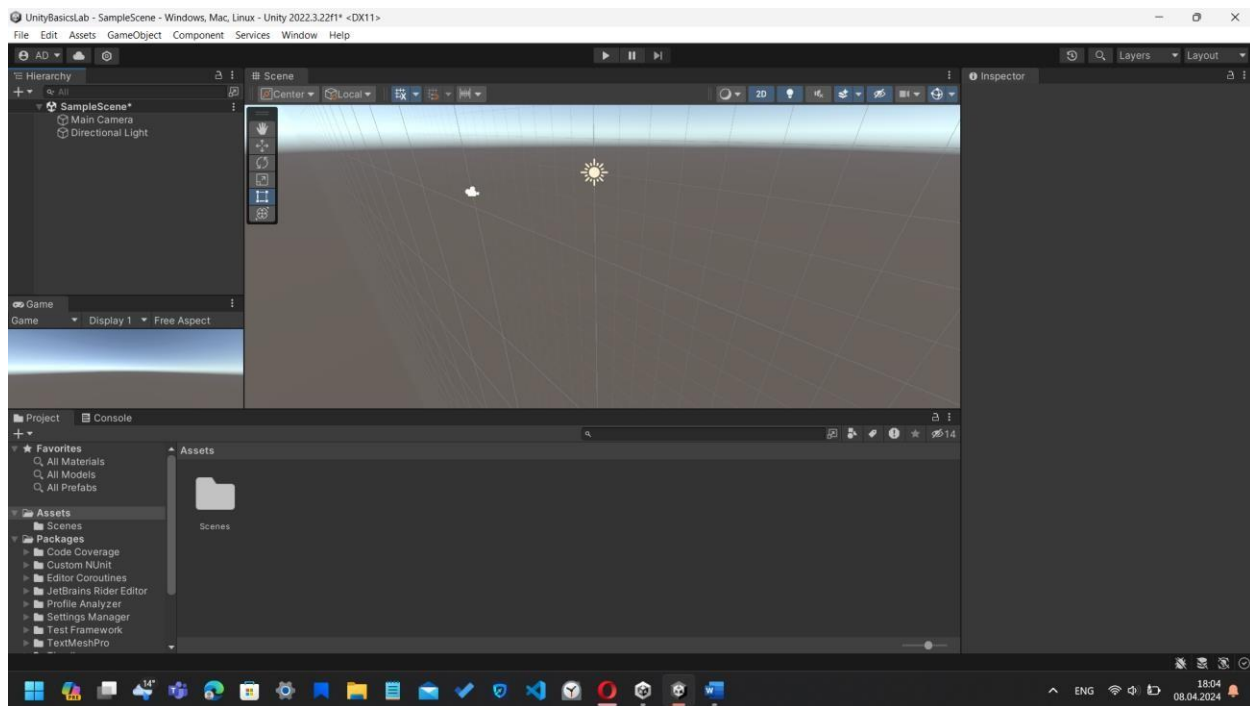
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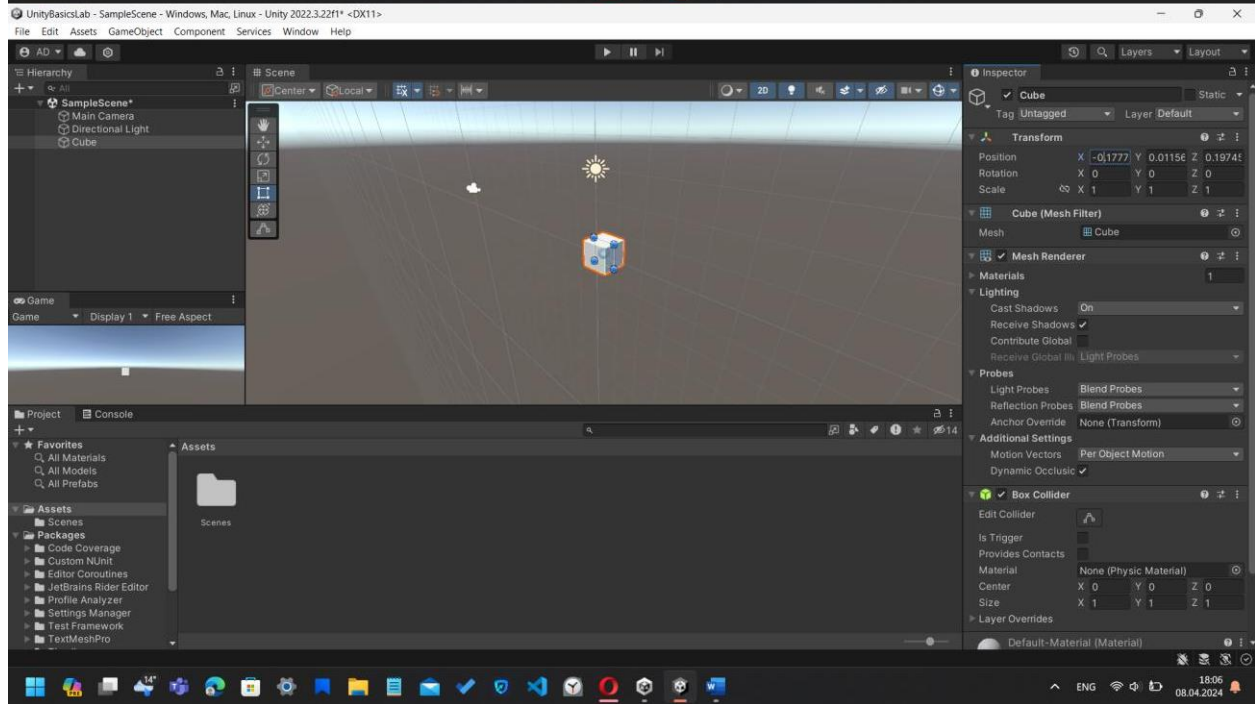
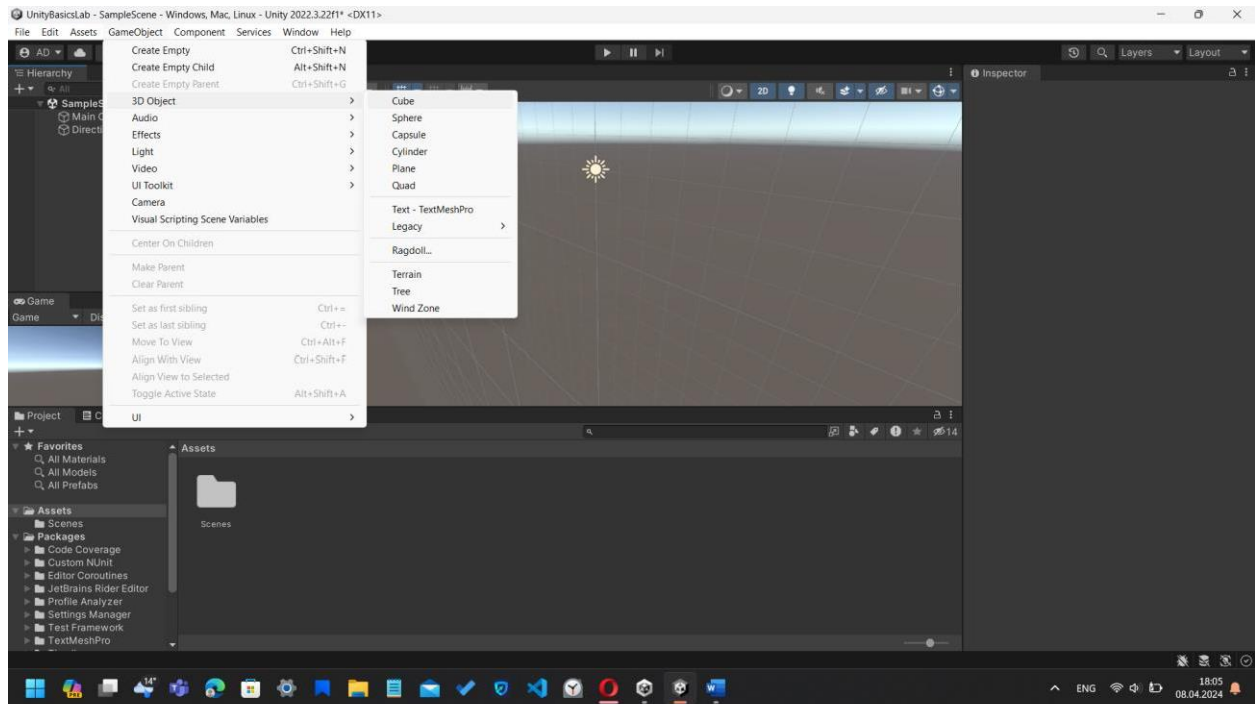
Link to the project : <https://github.com/AlikhanMDos/UnityBasicsLab>
Documentation:

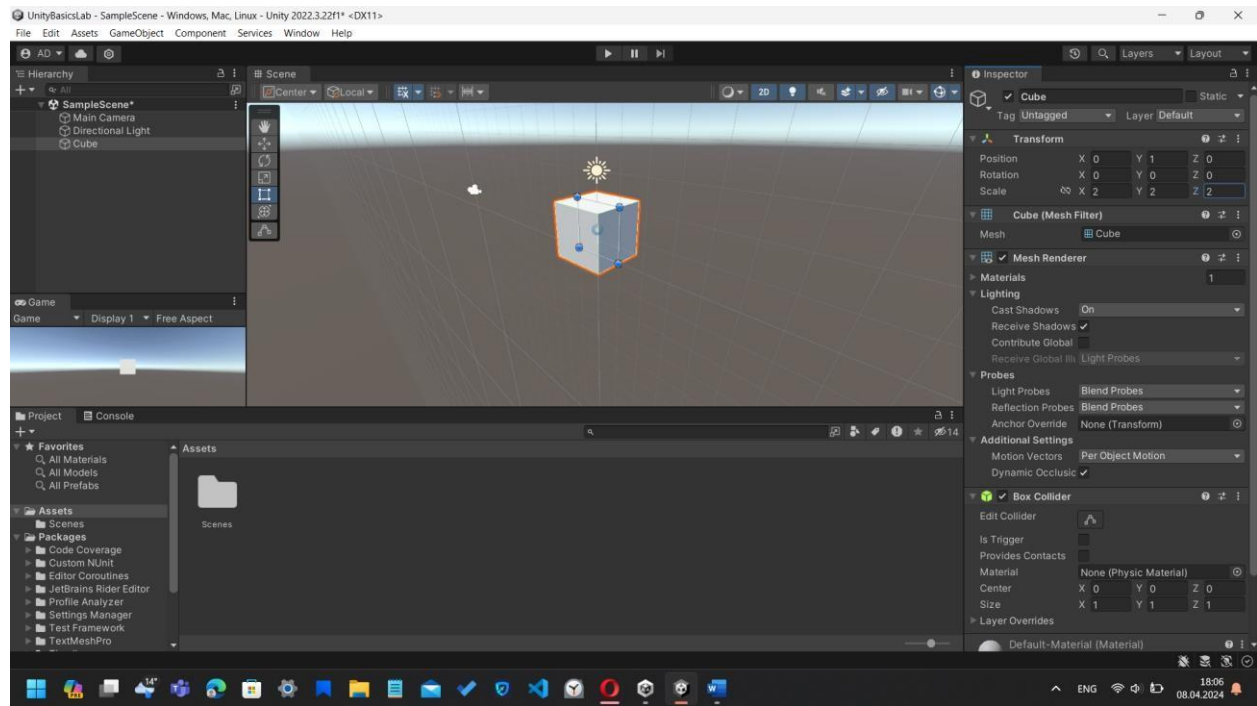
Unity Scene Setup:

- Created a new Unity project named "UnityBasicsLab".

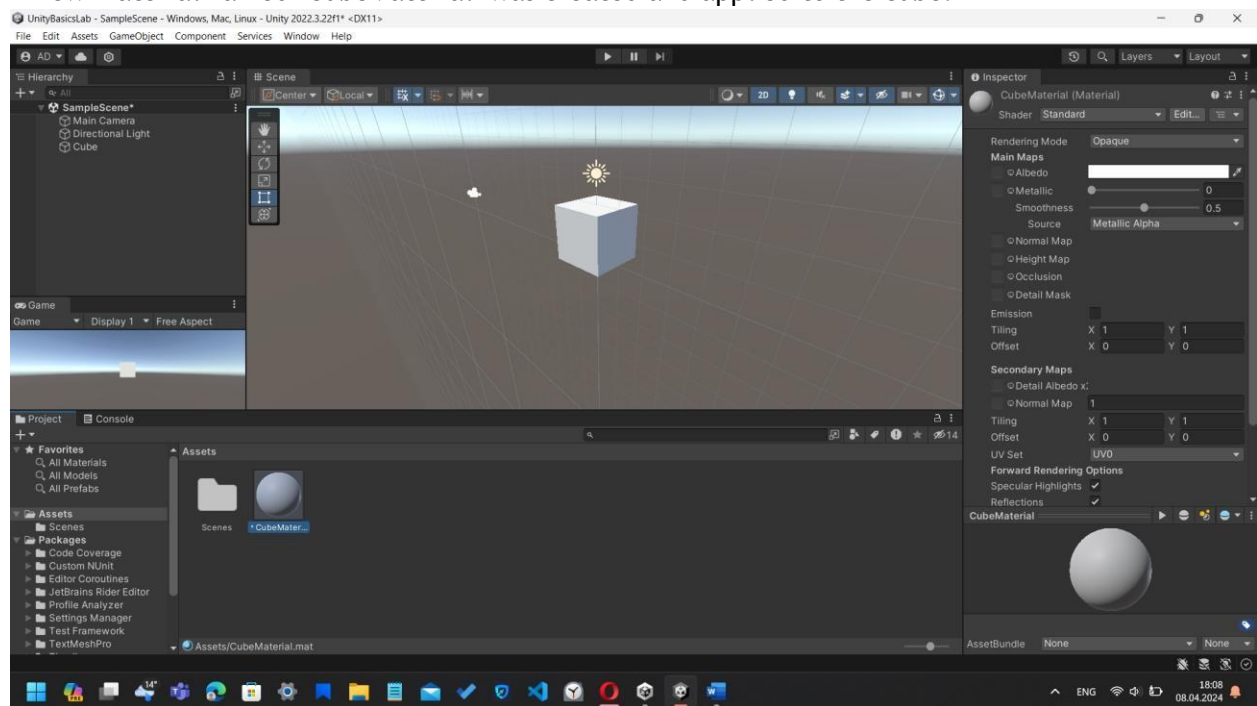


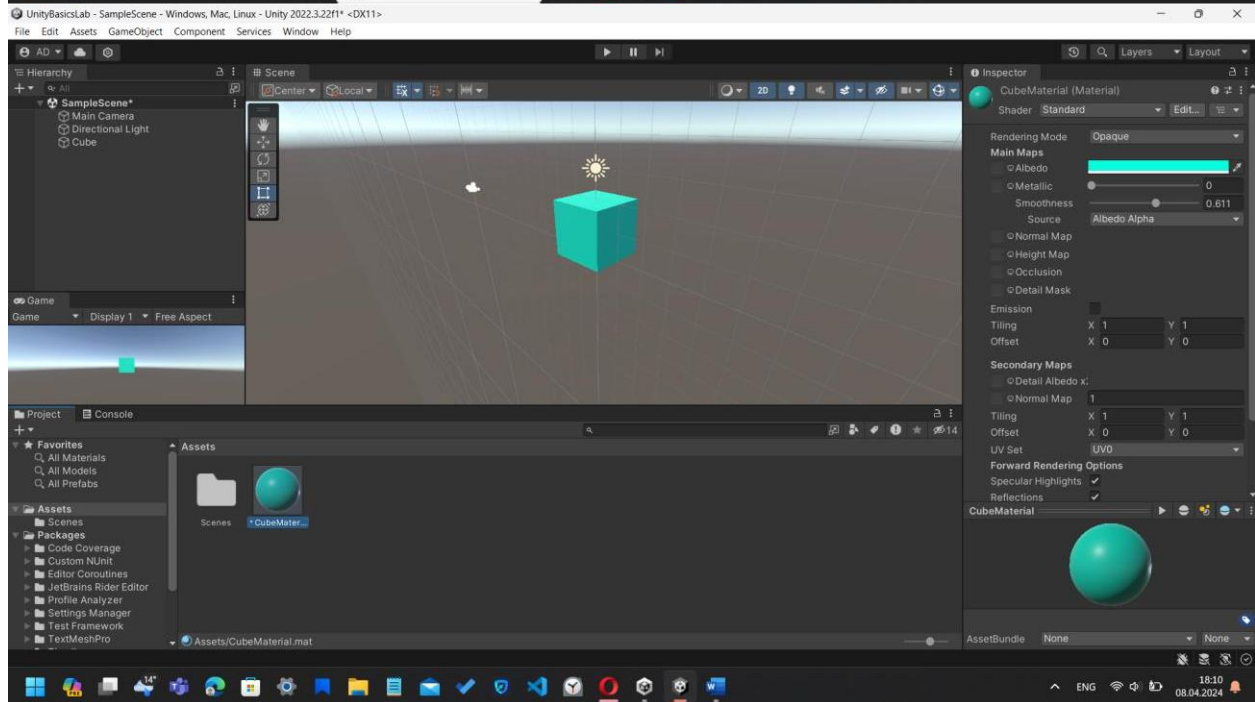
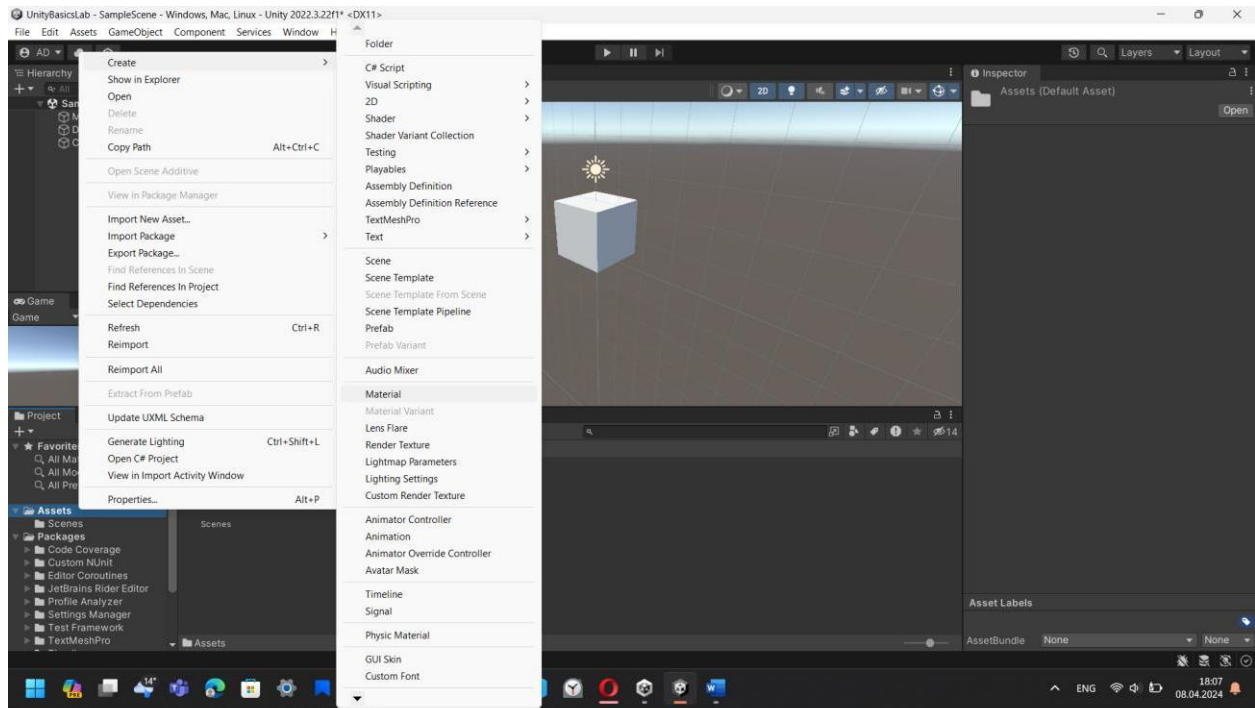
- In the scene, a cube GameObject was created, positioned at coordinates (0, 1, 0), and scaled to (2, 2, 2).



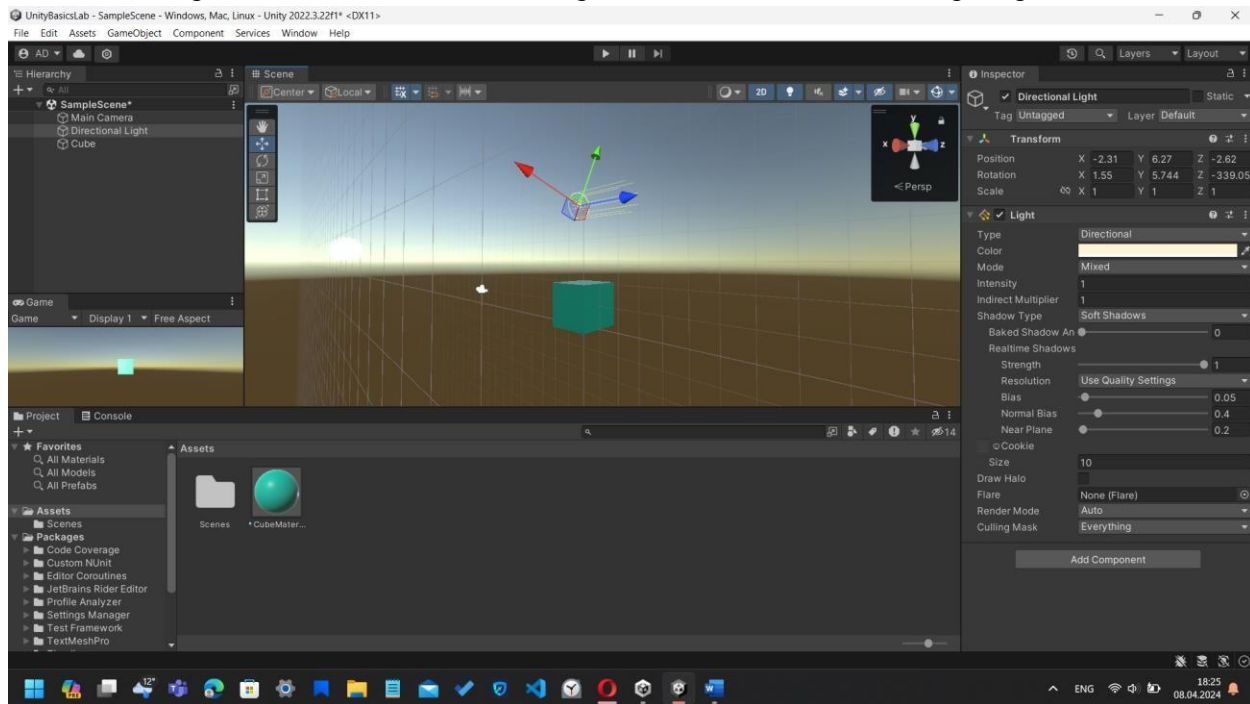


- A new material named "CubeMaterial" was created and applied to the cube.

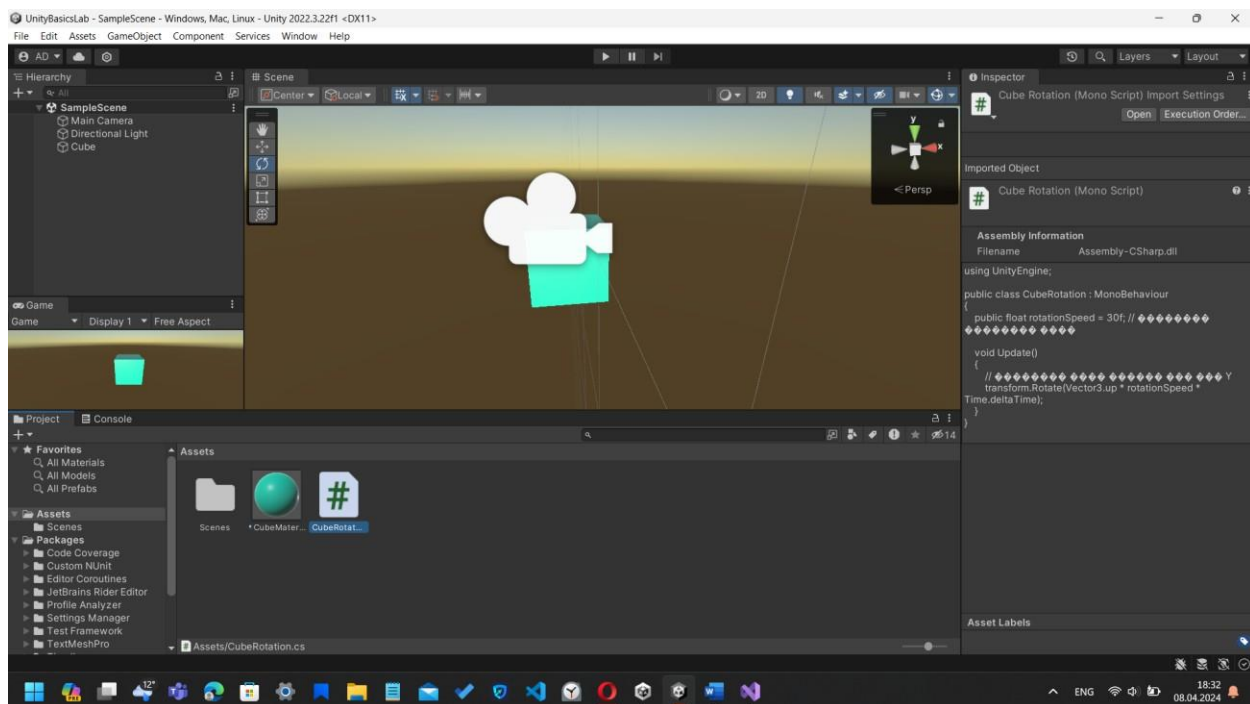




- A directional light source was added and configured to achieve the desired lighting effect.



- A camera was added and set up to view the entire cube.



Script's Code:

```
using UnityEngine;
```

```
public class CubeRotation : MonoBehaviour
```

```
{
    public float rotationSpeed = 30f; // Скорость вращения куба
```

```
    void Update()
```

```
    {
        // Вращение куба вокруг его оси Y
    }
}
```

```
transform.Rotate(Vector3.up * rotat onSpeed * T me.deltat me);  
}  
}
```

Challenges Faced and Outcomes:

- Writing the script was relatively straightforward thanks to the use of Unity's built-in methods.
- The main challenge was setting up the scene to achieve the desired visual lighting and object positions.
- After completing the scene setup and writing the script, we successfully tested the project and ensured that the cube rotates correctly.