

GAME PROGRAMMING

LAB 4 : BEGINNER SCRIPTING PART 2

Aim: To practice the following scripts using the required game objects
<https://learn.unity.com/project/beginner-gameplay-scripting?uv=2019.3>

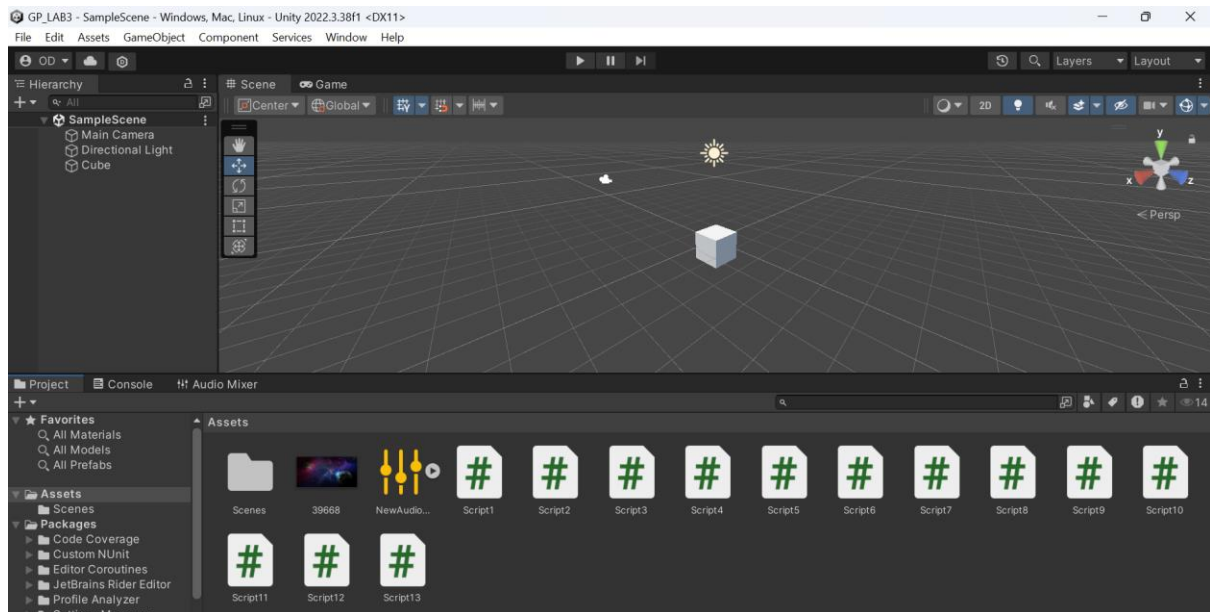
- 1. Linear Interpolation
- 2. Destroy
- 3. GetButton & GetKey
- 4. GetAxis
- 5. OnMouseDown
- 6. GetComponent
- 7. Delta Time
- 8. DataTypes
- 9. Classes
- 10. Instantiate
- 11. Arrays
- 12. Invoke
- 13. Enumerations
- 14. Switch Statements

Execute the scripts given in the link for the above listed items and provide appropriate screenshots, gameplay video for giving the clarity of your development.

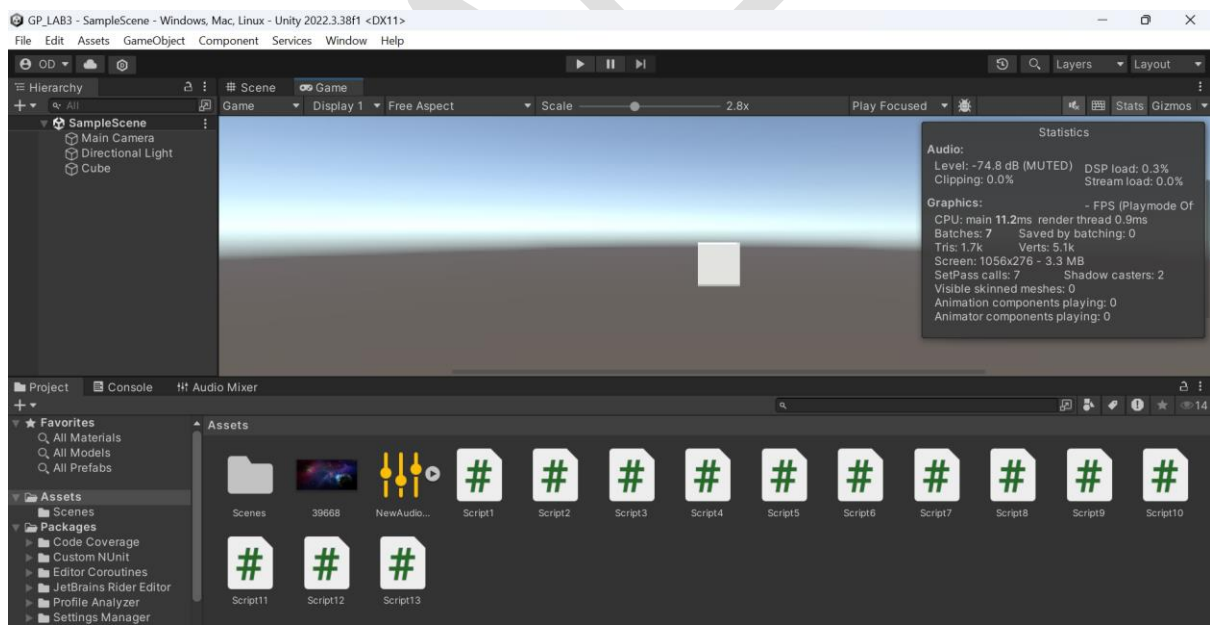
NAME : OM SUBRATO DEY

REGISTER NUMBER : 21BAI1876

From the final stage of the previous assignment, we remember we had got something like this

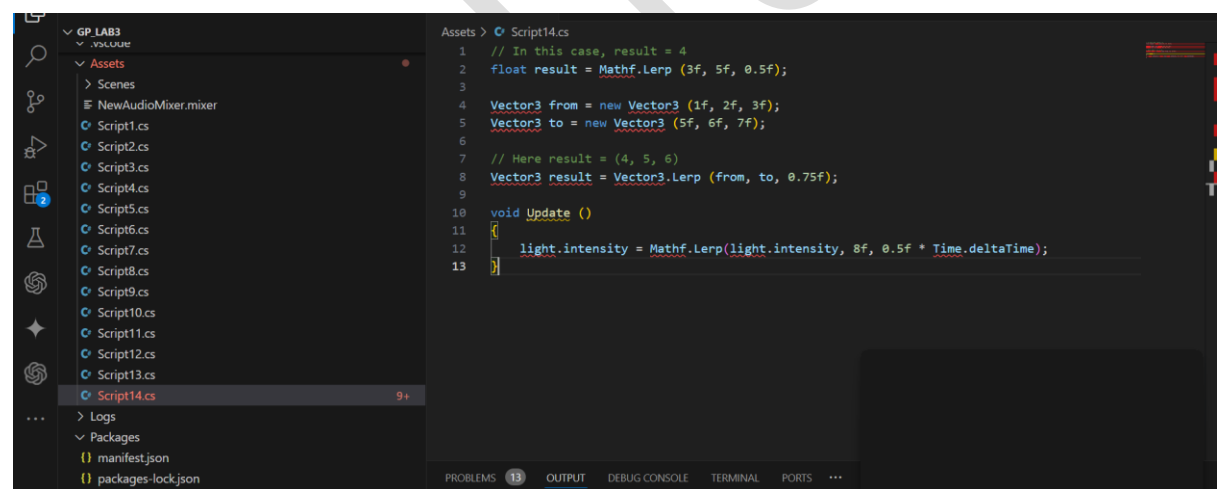
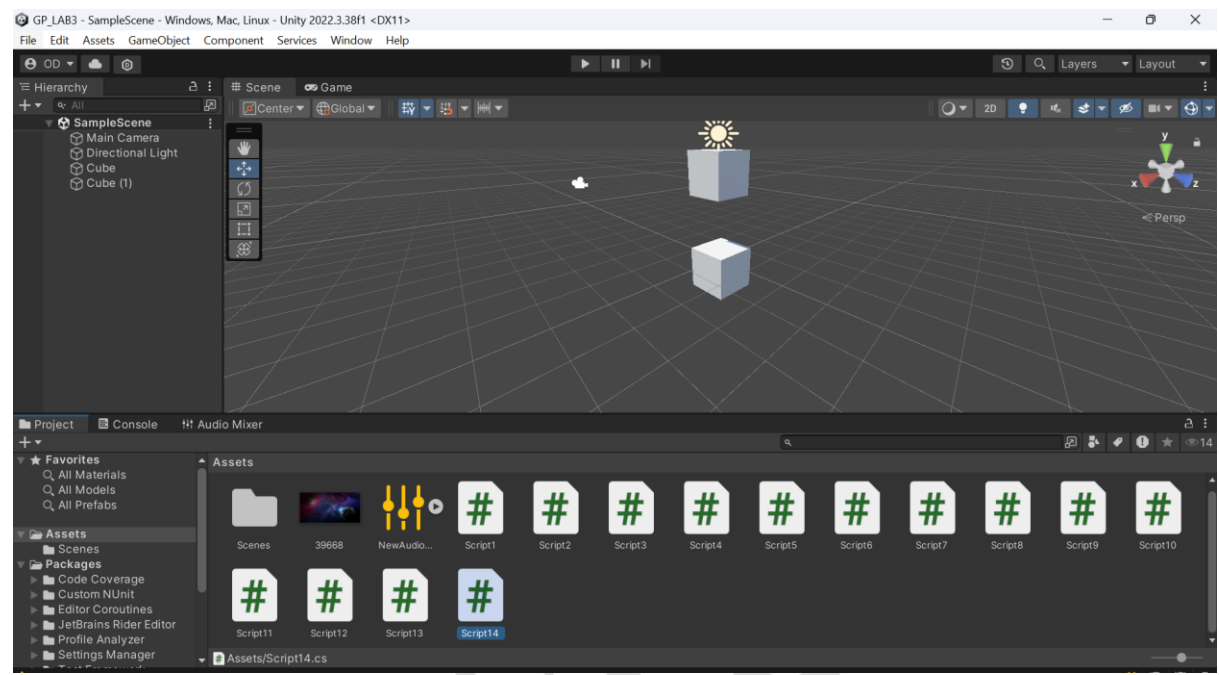


In game mode:

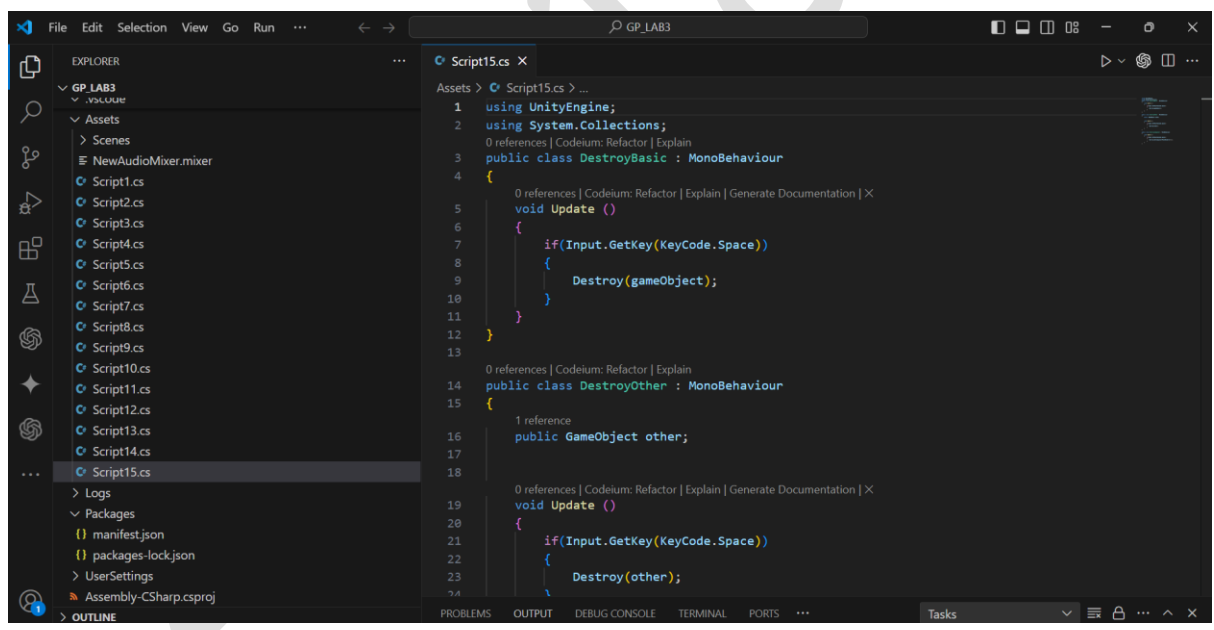
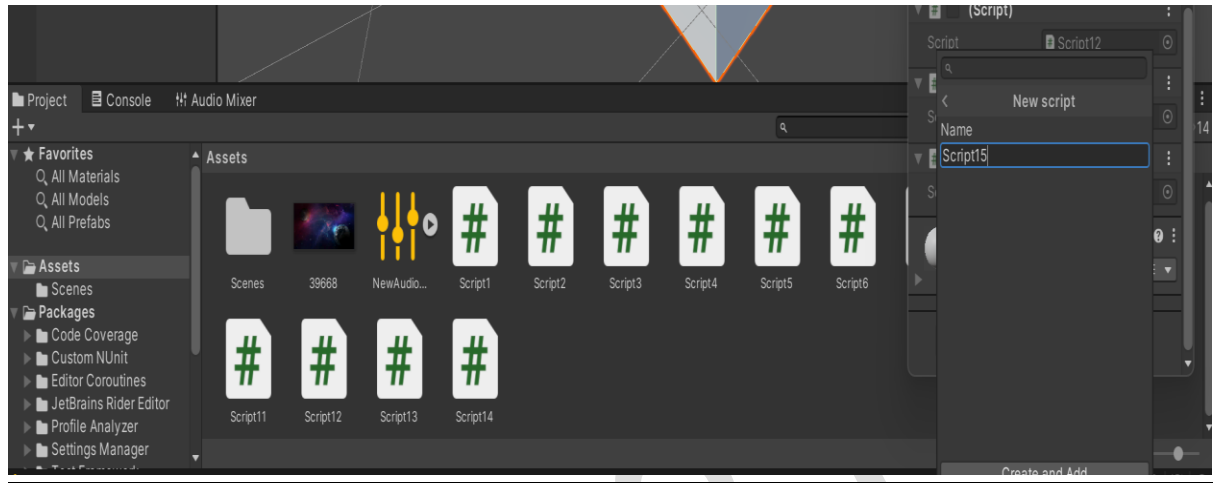


Now we will add the additional scripts as per mentioned in this upcoming assignment.

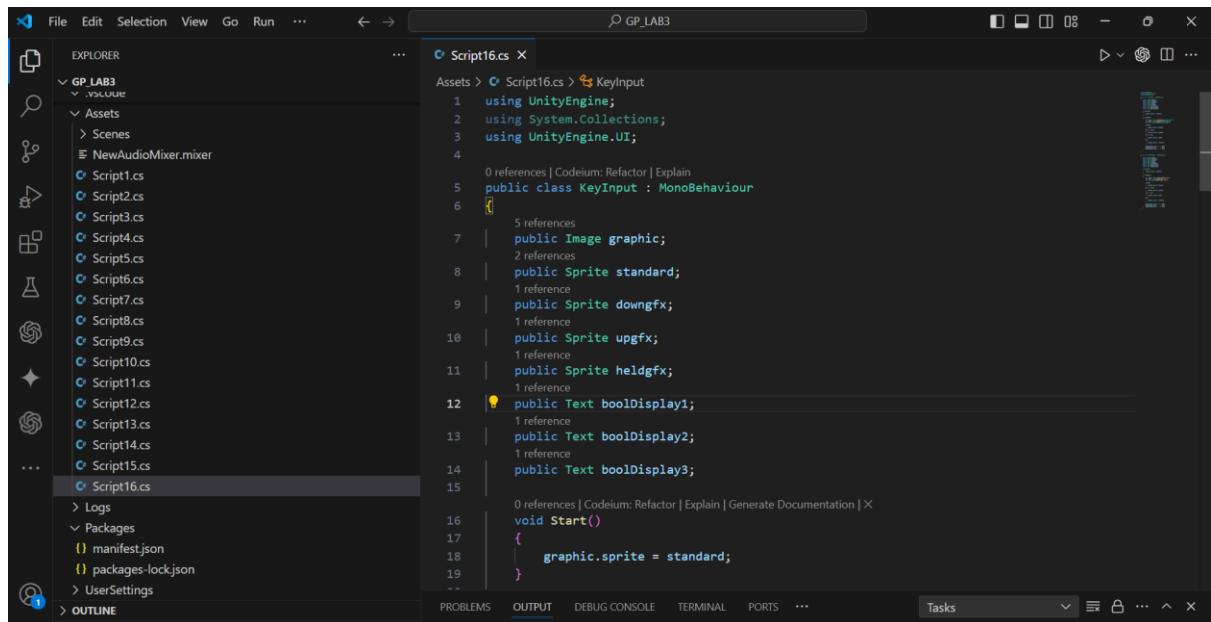
1. Linear Interpolation:



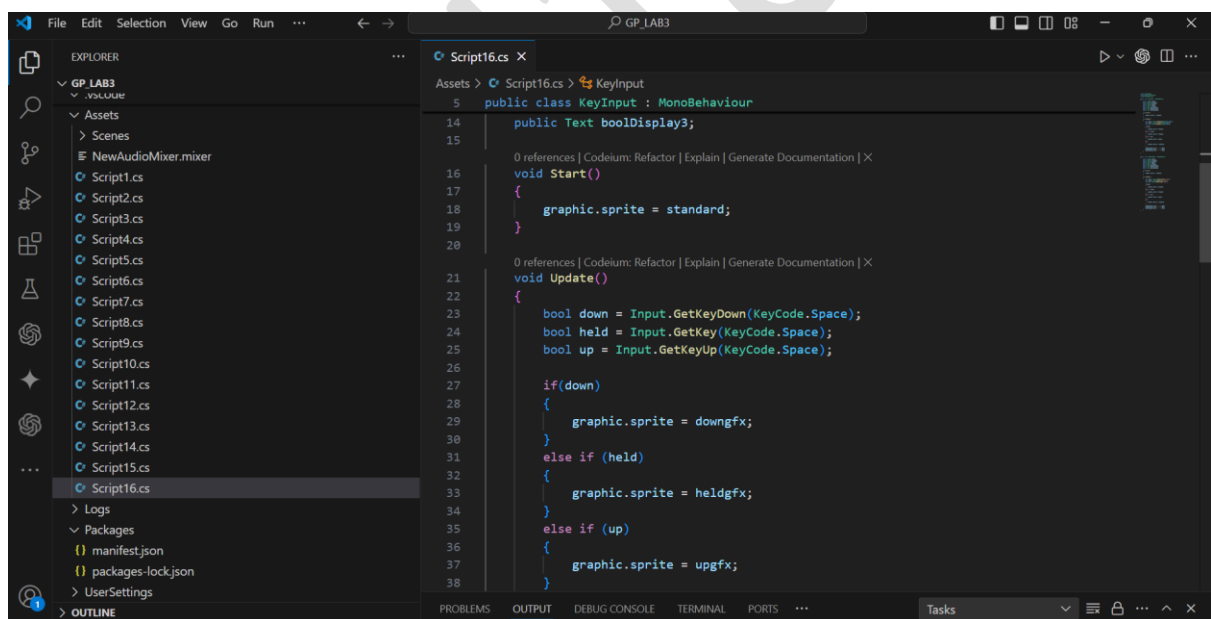
2. Destroy:



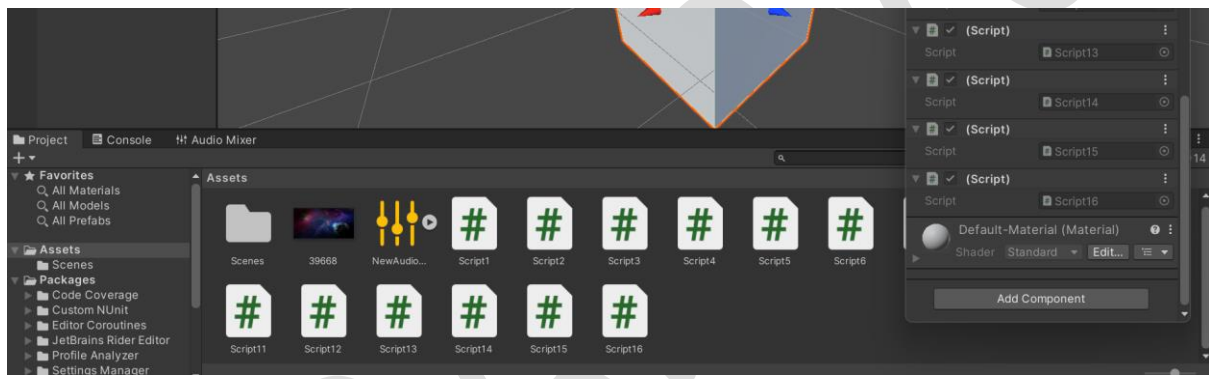
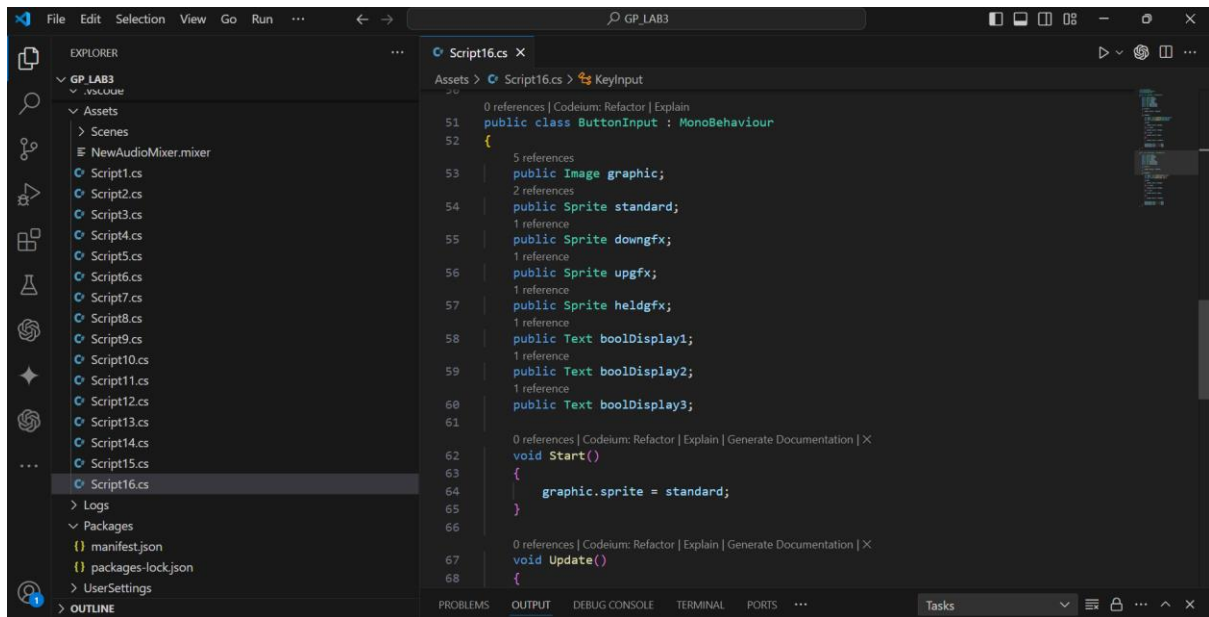
3. GetButton and GetKey:



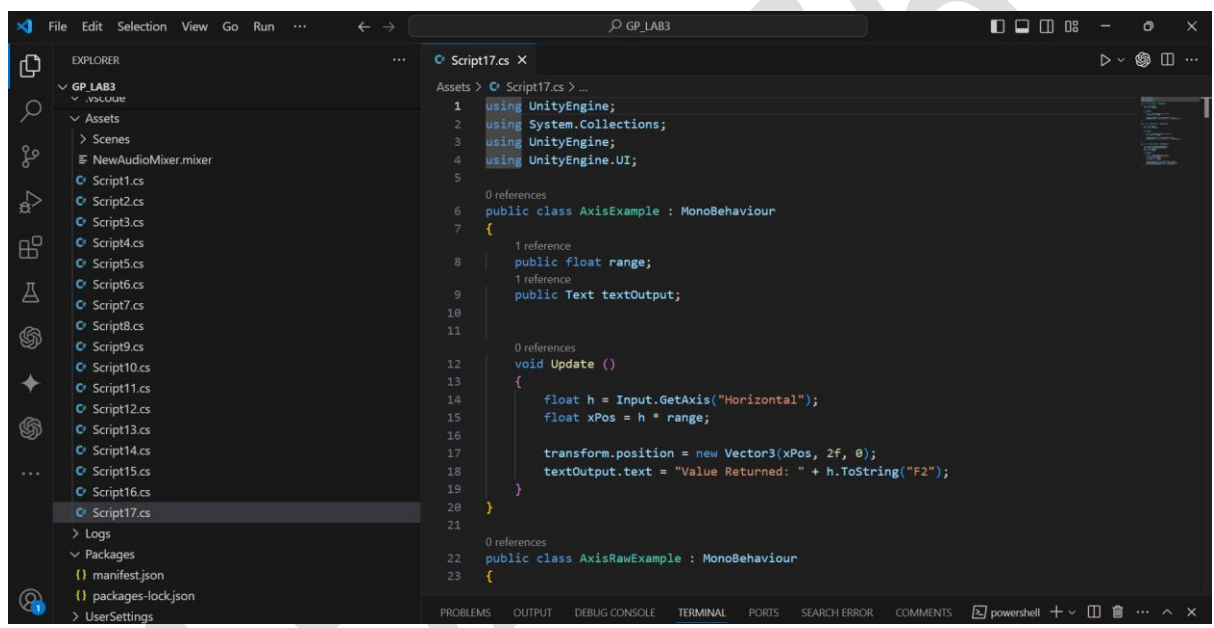
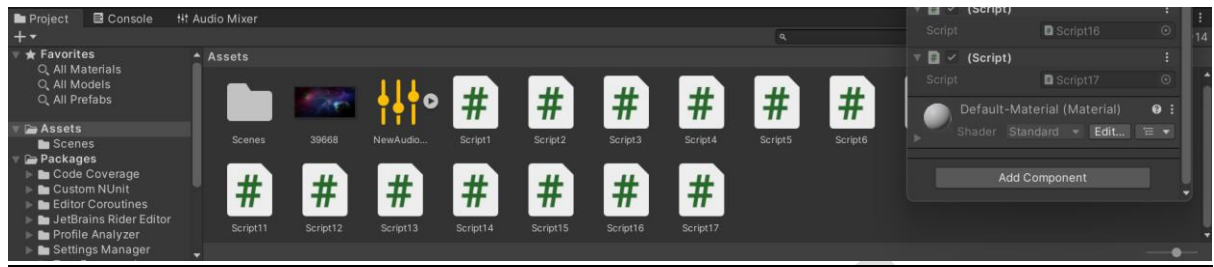
```
1 using UnityEngine;
2 using System.Collections;
3 using UnityEngine.UI;
4
5 public class KeyInput : MonoBehaviour
6 {
7     public Image graphic;
8     public Sprite standard;
9     public Sprite downgfx;
10    public Sprite upgfx;
11    public Sprite heldgfx;
12    public Text boolDisplay1;
13    public Text boolDisplay2;
14    public Text boolDisplay3;
15
16    void Start()
17    {
18        graphic.sprite = standard;
19    }
20 }
```



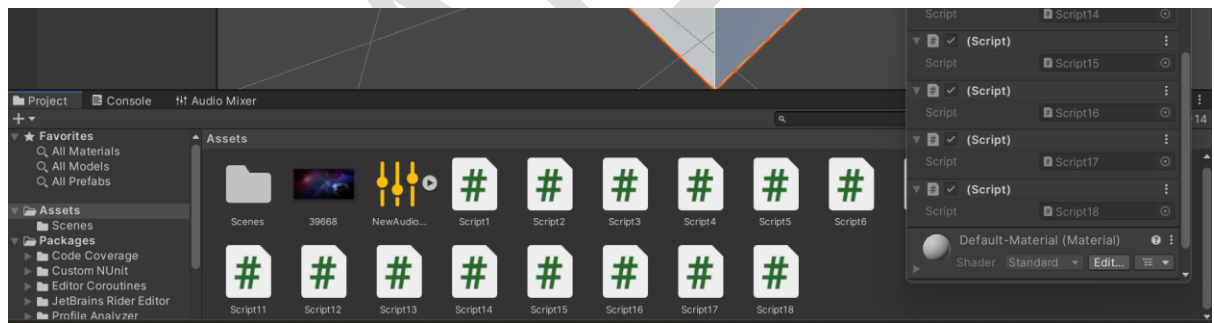
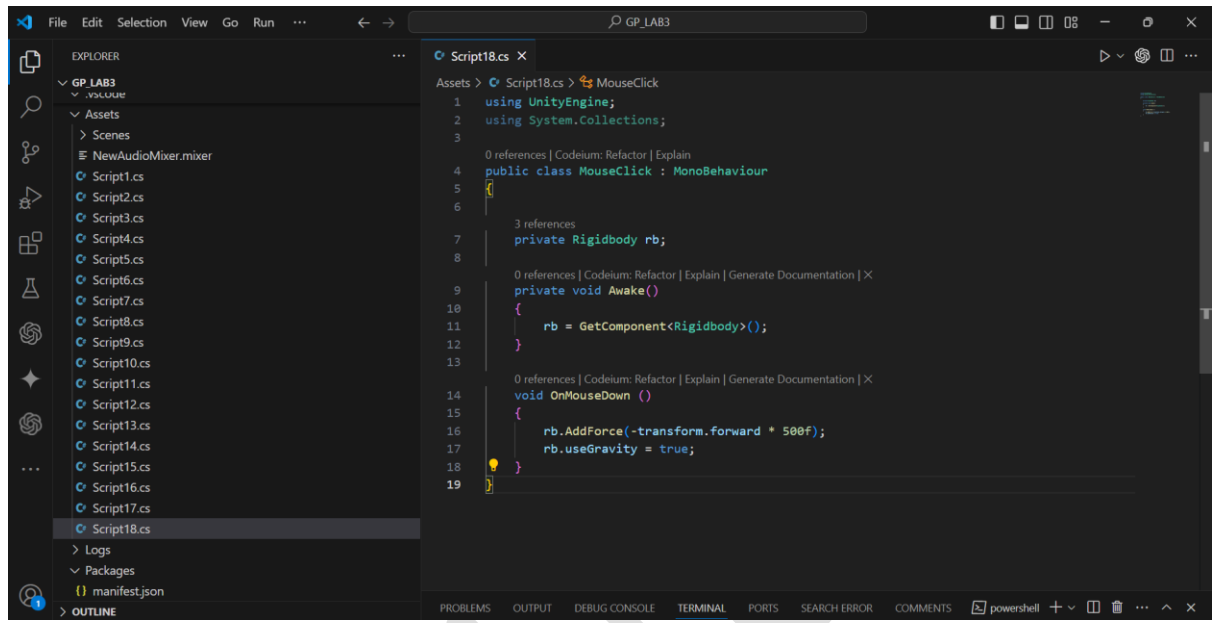
```
5 public class KeyInput : MonoBehaviour
14 public Text boolDisplay3;
15
16 void Start()
17 {
18     graphic.sprite = standard;
19 }
20
21 void Update()
22 {
23     bool down = Input.GetKeyDown(KeyCode.Space);
24     bool held = Input.GetKey(KeyCode.Space);
25     bool up = Input.GetKeyUp(KeyCode.Space);
26
27     if(down)
28     {
29         graphic.sprite = downgfx;
30     }
31     else if (held)
32     {
33         graphic.sprite = heldgfx;
34     }
35     else if (up)
36     {
37         graphic.sprite = upgfx;
38     }
39 }
```



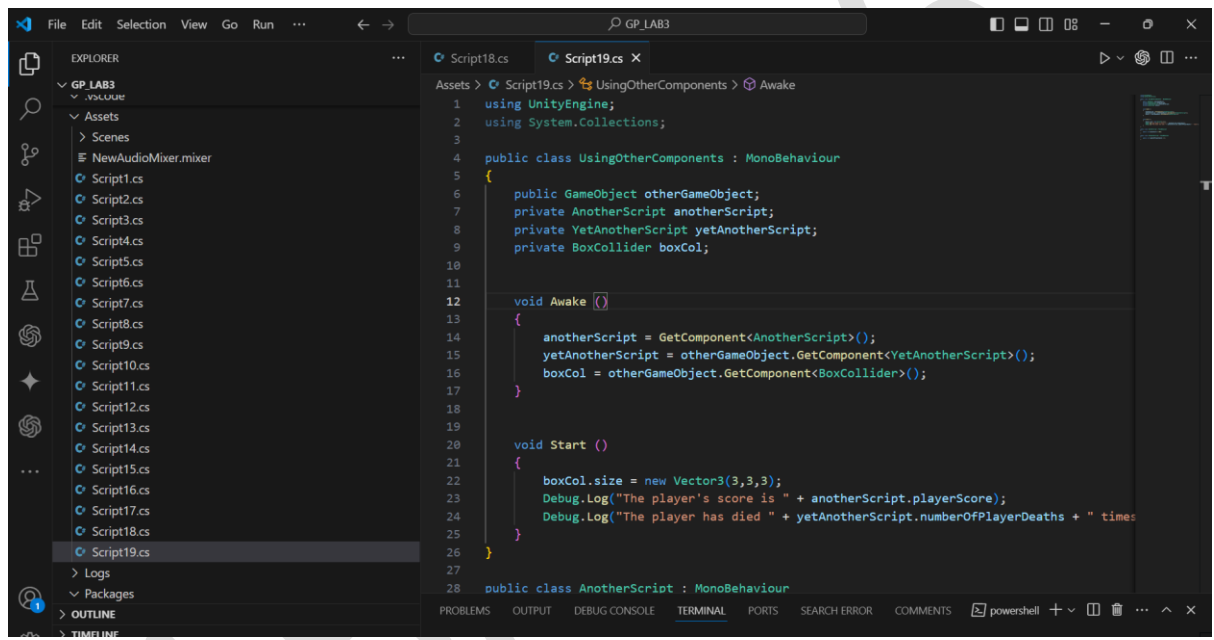
> 4.GetAxis



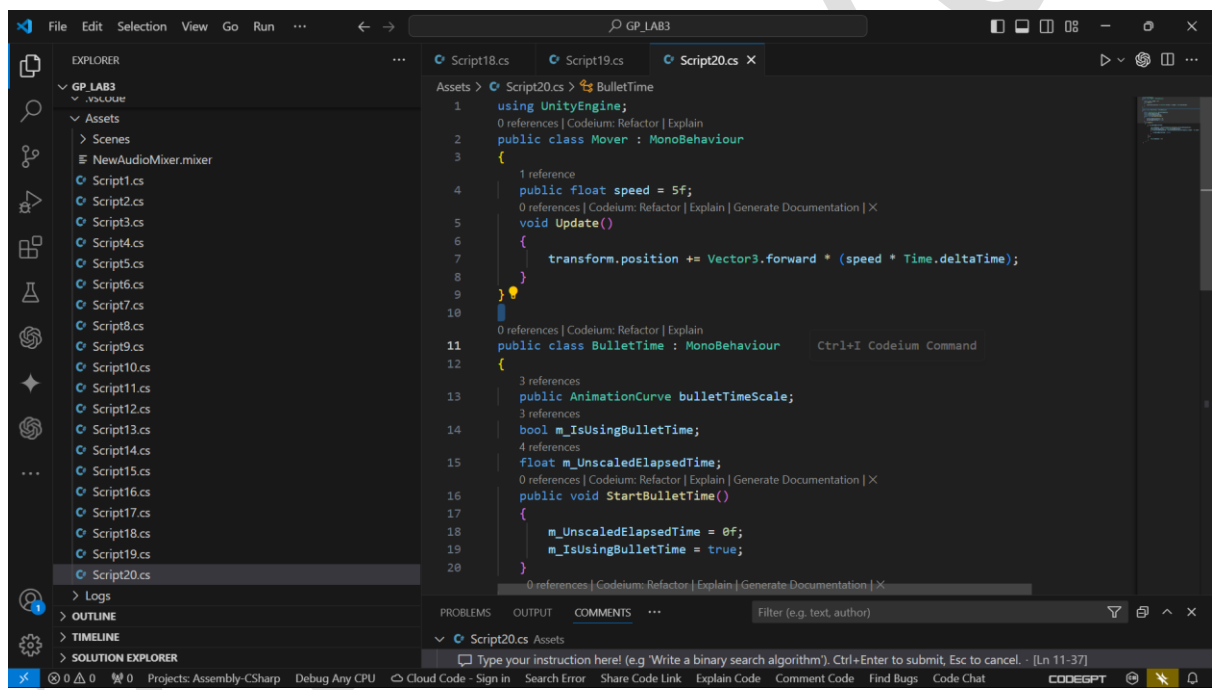
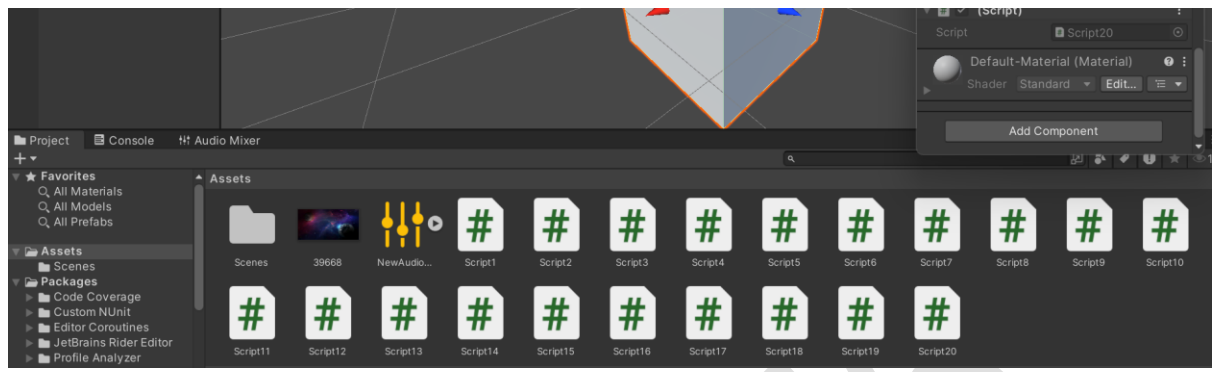
→ 5. OnMouseDown



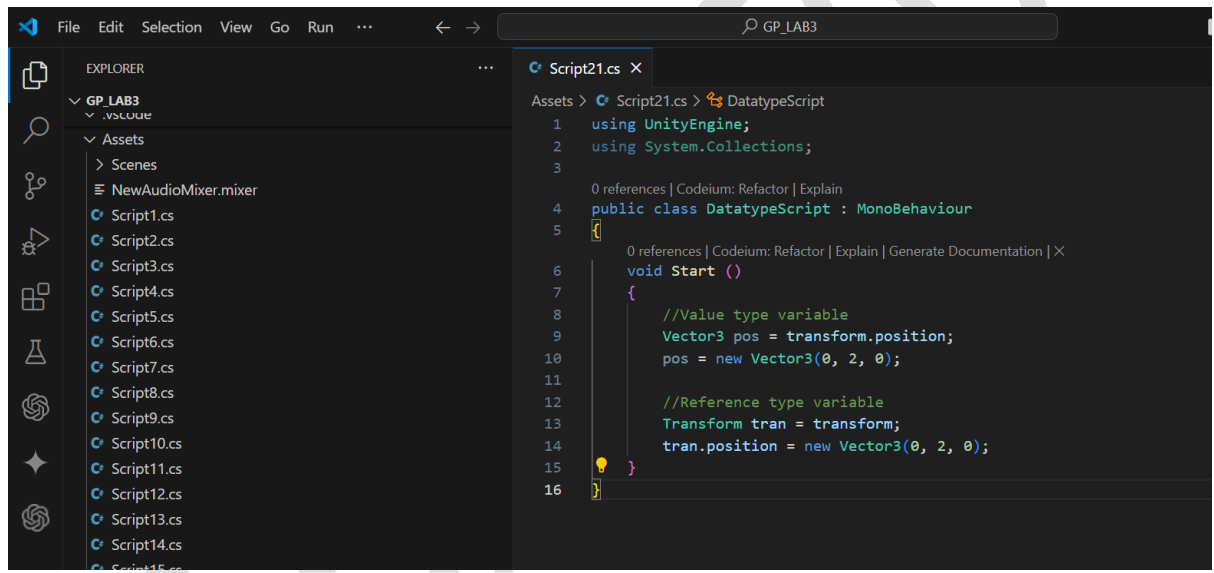
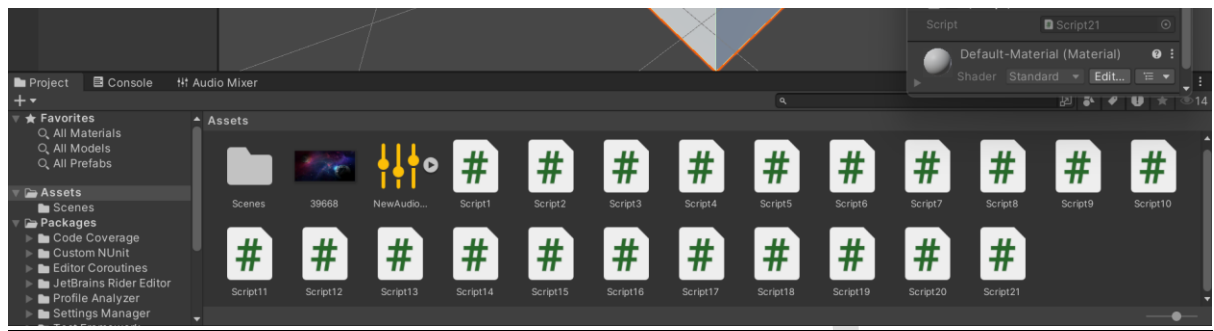
➔ 6. GetComponent



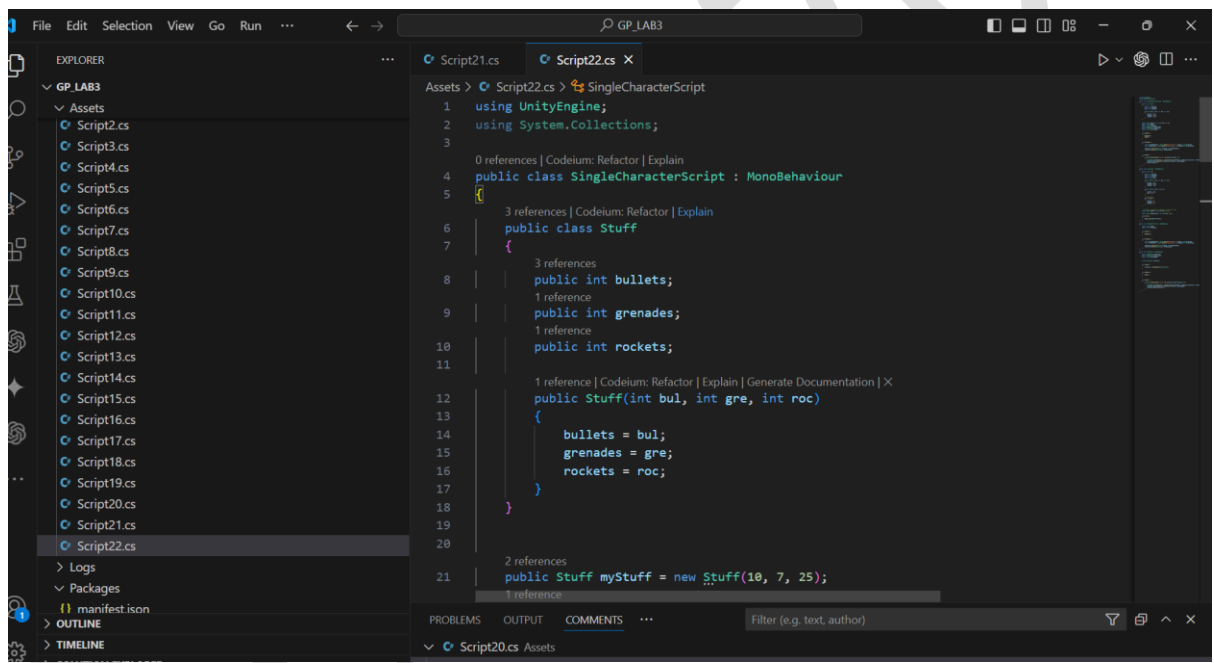
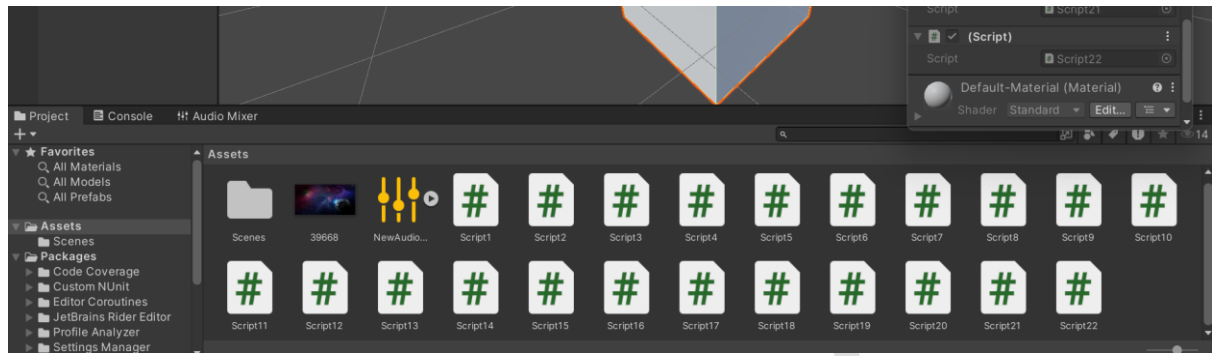
→ 7. Delta Time



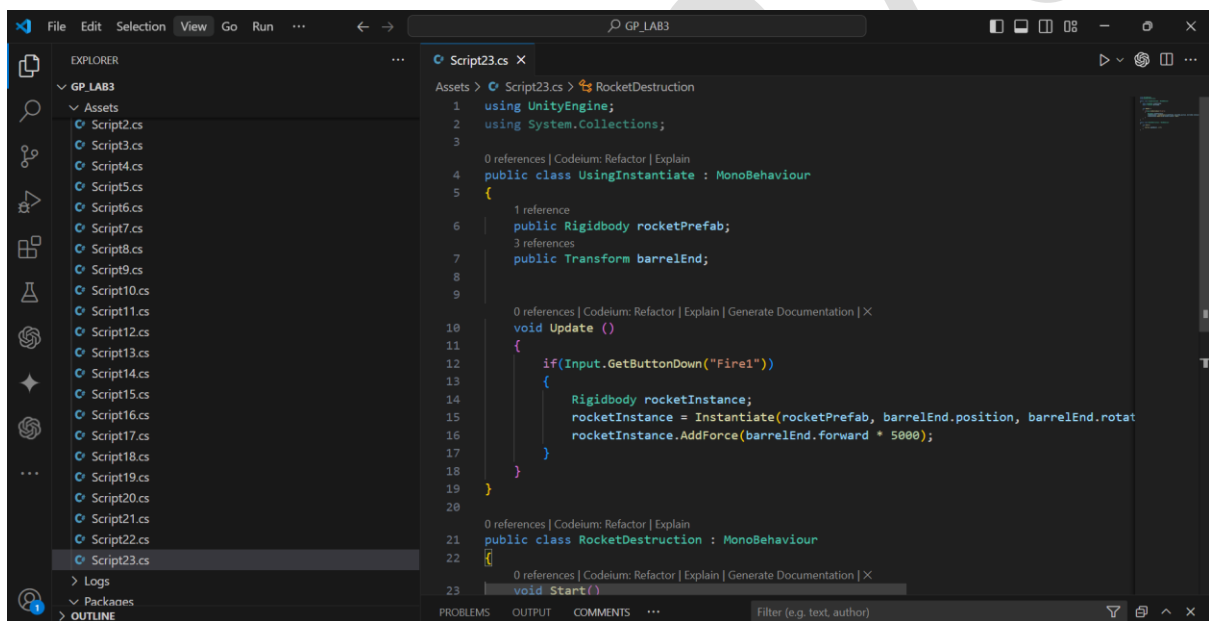
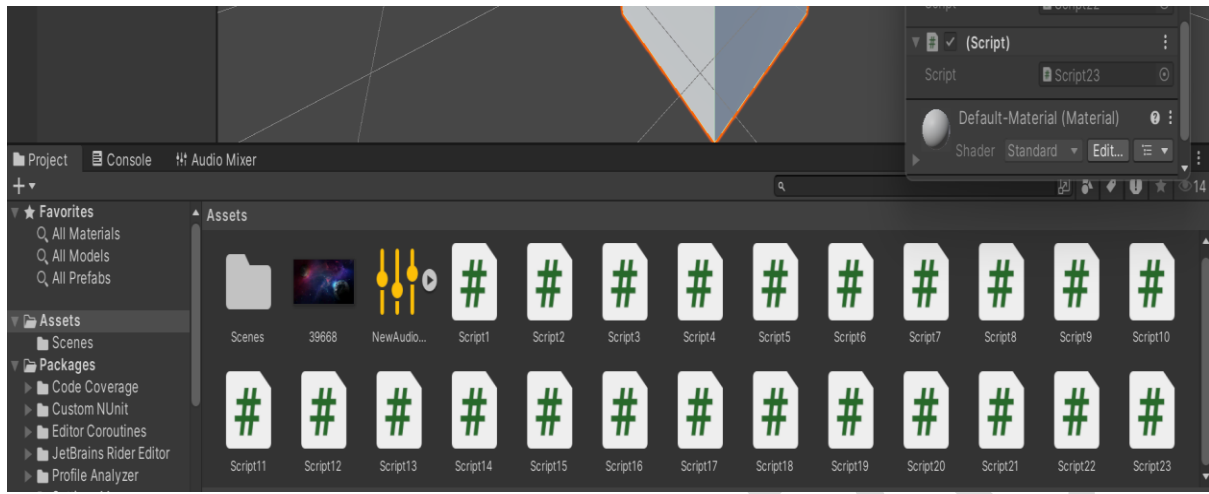
➔ 8. DataTypes



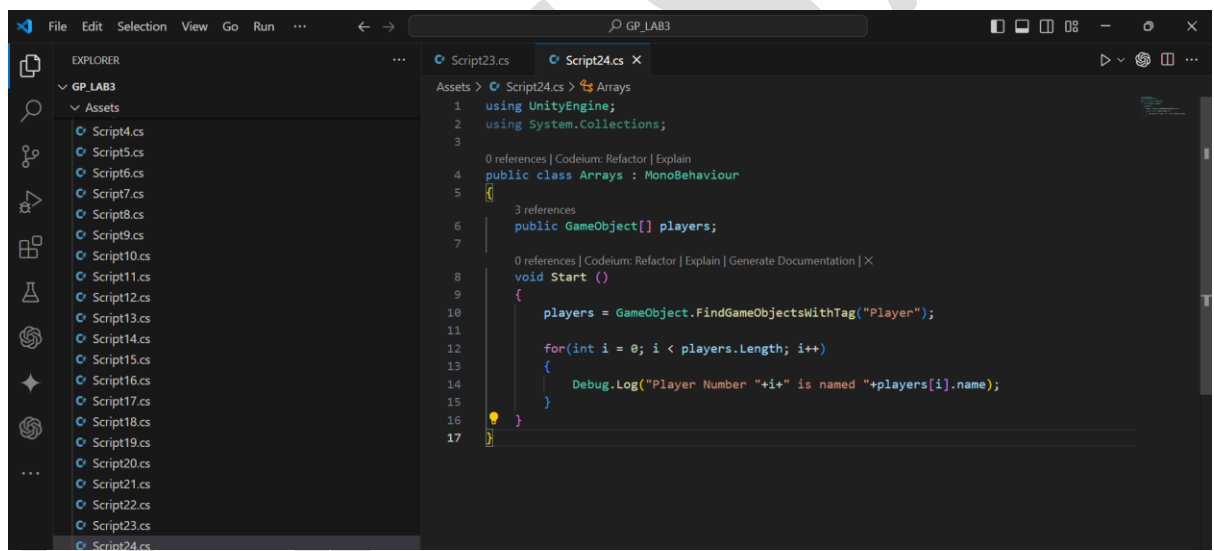
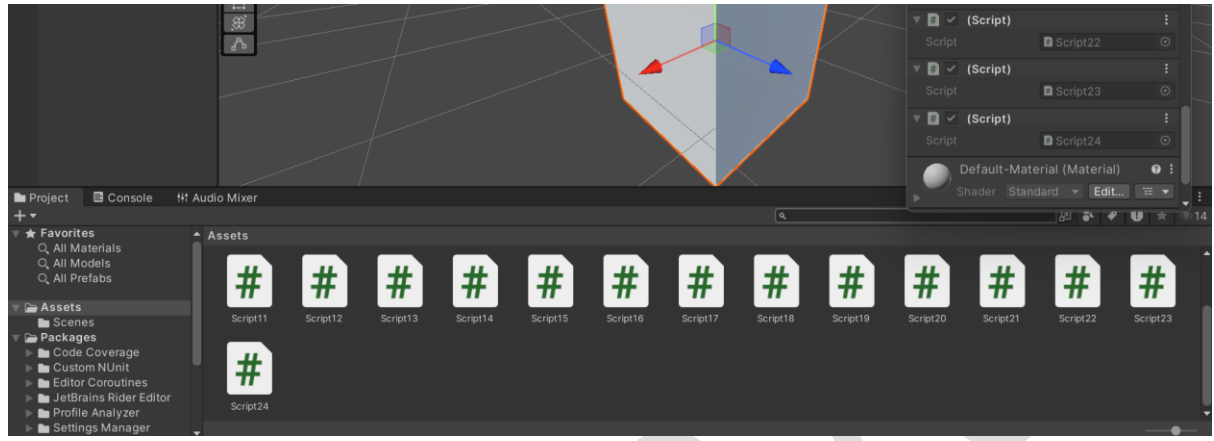
→ 9. Classes



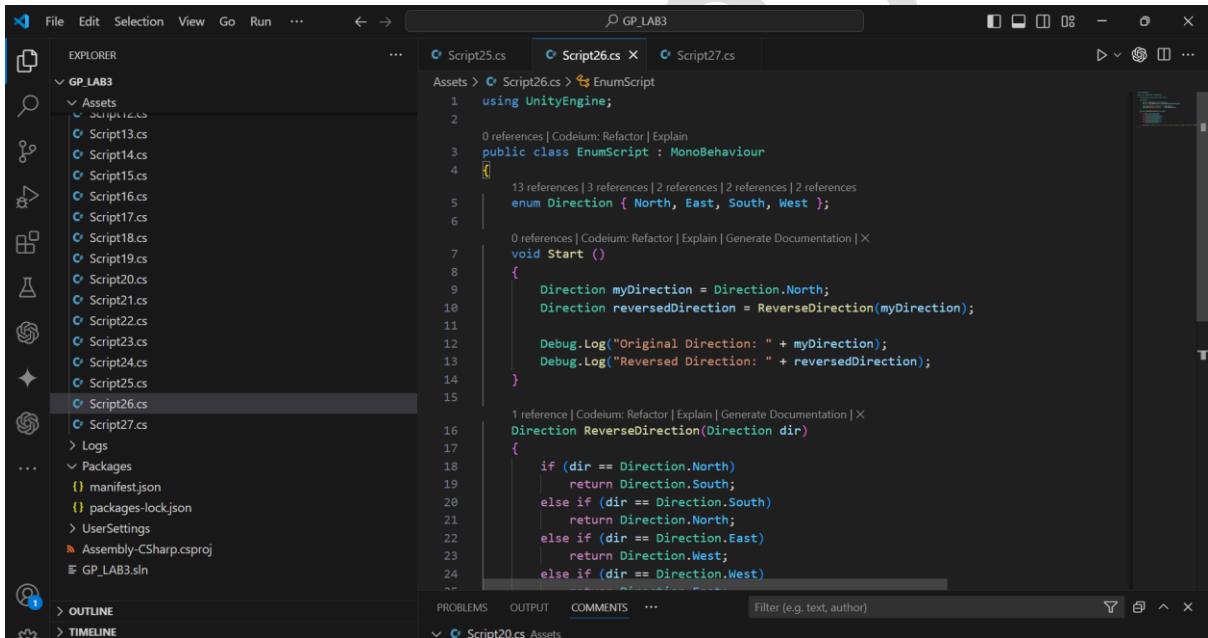
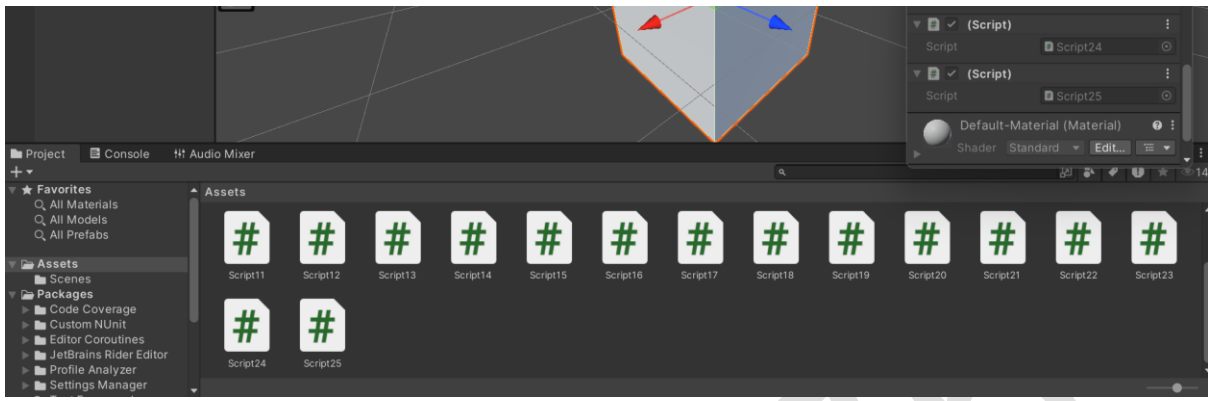
→ 10. Instantiate



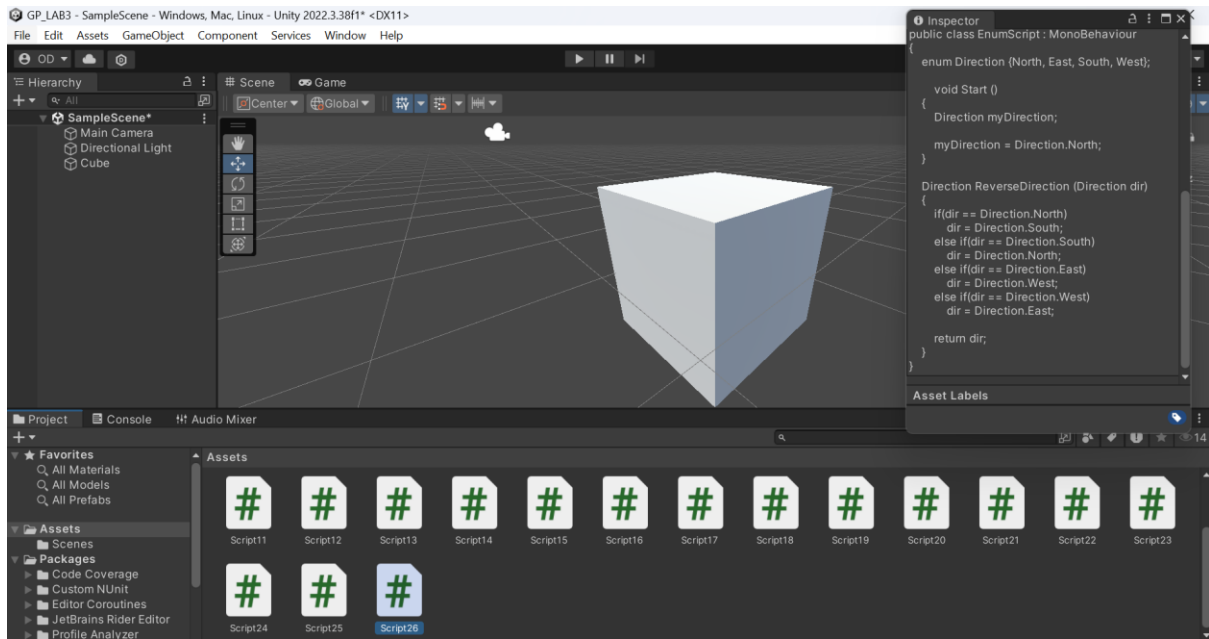
→ 11. Arrays



→ 12. Invoke



→ 13. Enumerations



→ 14. Switch Statements:

