





The screenshot shows the Visual Studio Code editor with the file `TargetX.cs` open. The code is for a `TargetX` class that inherits from `MonoBehaviour`. It includes private fields for `Rigidbody`, `GameManagerX`, `pointValue`, `explosionFx`, and `timeOnScreen`. The `Start()` method initializes the `Rigidbody`, finds the `GameManagerX` component, and sets the initial position and timer. The `OnMouseEnter()` method is triggered when the target is clicked, leading to the destruction of the object, score updates, and explosion effects.

```
1 using System.Collections;
2 using System.Collections.Generic;
3 using UnityEngine;
4
5 public class TargetX : MonoBehaviour
6 {
7     private Rigidbody rb;
8     private GameManagerX gameManagerX;
9     public int pointValue;
10    public GameObject explosionFx;
11
12    public float timeOnScreen = 1.0f;
13
14    private float minValuex = -3.75f; // the x value of the center of the left-most square
15    private float minValuY = -3.75f; // the y value of the center of the bottom-most square
16    private float spaceBetweenSquares = 2.5f; // the distance between the centers of squares on the game board
17
18
19    void Start()
20    {
21        rb = GetComponent<Rigidbody>();
22        gameManagerX = GameObject.Find("Game Manager").GetComponent<GameManagerX>();
23
24        transform.position = RandomSpawnPosition();
25        StartCoroutine(RemoveObjectRoutine()); // begin timer before target leaves screen
26    }
27
28    // When target is clicked, destroy it, update score, and generate explosion
29    private void OnMouseEnter()
30    {
31        if (gameManagerX.isGameActive)
32        {
33            Destroy(gameObject);
34            gameManagerX.UpdateScore(pointValue);
35            Explode();
36        }
37    }
38}
```

The status bar at the bottom indicates 81% zoom, no errors, and the system tray shows a temperature of 29°C and the date 27/11/2024.

The screenshot shows the Visual Studio Code editor with the file `DifficultyButtonX.cs` open. The code is for a `DifficultyButtonX` class that inherits from `MonoBehaviour`. It includes private fields for `Button`, `GameManagerX`, and `difficulty`. The `Start()` method finds the `GameManagerX` component, gets the button, and sets up the click listener. The `SetDifficulty()` method is called when the button is clicked, logging the event and starting the game.

```
1 using System.Collections;
2 using System.Collections.Generic;
3 using UnityEngine;
4 using UnityEngine.UI;
5
6 public class DifficultyButtonX : MonoBehaviour
7 {
8     private Button button;
9     private GameManagerX gameManagerX;
10    public int difficulty;
11
12    // Start is called before the first frame update
13    void Start()
14    {
15        gameManagerX = GameObject.Find("Game Manager").GetComponent<GameManagerX>();
16        button = GetComponent<Button>();
17        button.onClick.AddListener(SetDifficulty());
18    }
19
20    /* When a button is clicked, call the StartGame() method
21     * and pass it the difficulty value (1, 2, 3) from the button
22     */
23    void SetDifficulty()
24    {
25        Debug.Log(button.gameObject.name + " was clicked");
26        gameManagerX.StartGame();
27    }
28}
```

The status bar at the bottom indicates 89% zoom, no errors, and the system tray shows a temperature of 30°C and the date 27/11/2024.

This screenshot shows the Visual Studio IDE with the `DifficultyButtonX.cs` script open. The script is a C# class that inherits from `MonoBehaviour`. It contains a `Start()` method that initializes the `gameManagerX` and `button` variables. The `button` variable is assigned to the `GetComponent<Button>()` method of the `button` component. The `button.onClick.AddListener(SetDifficulty());` line is highlighted. The `SetDifficulty()` method is also visible, which logs a message and calls `gameManagerX.StartGame(difficulty);`.

```
1 using System.Collections;
2 using System.Collections.Generic;
3 using UnityEngine;
4 using UnityEngine.UI;
5
6 public class DifficultyButtonX : MonoBehaviour
7 {
8     private Button button;
9     private GameManagerX gameManagerX;
10    public int difficulty;
11
12    // Start is called before the first frame update
13    void Start()
14    {
15        gameManagerX = GameObject.Find("Game Manager").GetComponent<GameManagerX>();
16        button = GetComponent<Button>();
17        button.onClick.AddListener(SetDifficulty());
18    }
19
20    // When a button is clicked, call the StartGame() method
21    // and pass it the difficulty value (1, 2, 3) from the button
22    void SetDifficulty()
23    {
24        Debug.Log(button.gameObject.name + " was clicked");
25        gameManagerX.StartGame(difficulty); // Pass the difficulty value
26    }
27 }
```

This screenshot shows the Visual Studio IDE with the `DifficultyButtonX.cs` script open. The script is a C# class that inherits from `MonoBehaviour`. It contains a `SetDifficulty()` method that logs a message and calls `gameManagerX.StartGame(difficulty);`. The `Start()` method is also visible, which initializes the `gameManagerX` and `button` variables. The `button` variable is assigned to the `GetComponent<Button>()` method of the `button` component. The `button.onClick.AddListener(SetDifficulty());` line is highlighted.

```
1 using System.Collections;
2 using System.Collections.Generic;
3 using UnityEngine;
4 using UnityEngine.UI;
5
6 public class DifficultyButtonX : MonoBehaviour
7 {
8     private Button button;
9     private GameManagerX gameManagerX;
10    public int difficulty;
11
12    // Start is called before the first frame update
13    void Start()
14    {
15        gameManagerX = GameObject.Find("Game Manager").GetComponent<GameManagerX>();
16        button = GetComponent<Button>();
17        button.onClick.AddListener(SetDifficulty());
18    }
19
20    // When a button is clicked, call the StartGame() method
21    // and pass it the difficulty value (1, 2, 3) from the button
22    void SetDifficulty()
23    {
24        Debug.Log(button.gameObject.name + " was clicked");
25        gameManagerX.StartGame(difficulty);
26    }
27 }
```