[B-2] Scale the cube

Objective

To learn how to apply vector-based scaling to objects in Unity.

Challenge Statement

- 1. Scripting Scale:
 - a. Edit the "Scale" script to scale the object up and down using vector operations.
 - b. The scaling should be controllable through user input (e.g., different keys to rotate around different axes).

Answer key next page!

Answer Key

```
using UnityEngine;
public class Scale_Solution : MonoBehaviour
    public float scaleSpeed = 0.5f;
    void Update()
    {
        if (Input.GetKey(KeyCode.UpArrow))
            // Scale up uniformly
            transform.localScale += Vector3.one * scaleSpeed *
Time.deltaTime;
        }
        if (Input.GetKey(KeyCode.DownArrow))
            // Scale down uniformly
            transform.localScale -= Vector3.one * scaleSpeed *
Time.deltaTime;
        }
        // Prevent negative scaling
        transform.localScale = new Vector3(
            Mathf.Max(transform.localScale.x, 0.1f),
            Mathf.Max(transform.localScale.y, 0.1f),
            Mathf.Max(transform.localScale.z, 0.1f)
        );
   }
}
```

Starter Code

```
using UnityEngine;

public class Scale : MonoBehaviour
{
    public float scaleSpeed = 0.5f;
```

```
void Update()
{
    // Implement scaling logic using vector operations
}
```