

The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer (Left):** Shows the project structure under "GAMERPG". It includes ".vscode", "Assets" (Animations, Prefabs, Scenes), "Scripts" (MovementController.cs), "Sprites", "Packages", "Assembly-CSharp.csproj", "gameRPG.sln", and "README.md".
- Code Editor (Center):** Displays the "MovementController.cs" script in C#.

```
Assets > Scripts > C# MovementController.cs
1  using System.Collections;
2  using System.Collections.Generic;
3  using UnityEngine;
4
5  public class MovementController : MonoBehaviour
6  {
7      // Start is called before the first frame update
8      void Start()
9      {
10
11      }
12
13      // Update is called once per frame
14      void Update()
15      {
16
17      }
18  }
```
- Bottom Status Bar:** Shows "Lín. 13, col. 39 Espacios: 4 UTF-8 CRLF C#" and the date "18/10/2024".

The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer (Left):** Shows the project structure under "GAMERPG". It includes ".vscode", "Assets" (Animations, Prefabs, Scenes), "Scripts" (MovementController.cs), "Sprites", "Packages", "Assembly-CSharp.csproj", "gameRPG.sln", and "README.md".
- Code Editor (Center):** Displays the "MovementController.cs" script in C# with additional code added.

```
Assets > Scripts > C# MovementController.cs > MovementController > movement
1  using System.Collections;
2  using System.Collections.Generic;
3  using UnityEngine;
4
5  public class MovementController : MonoBehaviour
6  {
7      //Velocidad de los personajes
8      public float movementSpeed = 3.0f;
9      //Representa la ubicación del Player o Enemy
10     Vector2 movement = new Vector2();
11     //Referencia a Rigidbody 2D
12     Rigidbody2D rb2D;
13     // Start is called before the first frame update
14     void Start()
15     {
16
17     }
18
19     // Update is called once per frame
20     void Update()
21     {
22
23     }
24 }
```
- Bottom Status Bar:** Shows "Proyectos: 1" and the date "18/10/2024".

The screenshot shows the Unity Editor interface with the following details:

- Top Bar:** Archivo, Editar, Selección, Ver, Ir, Ejecutar, ...
- Search Bar:** gameRPG
- Sidebar:** EXPLORADOR, GAMERPG (Assets: Sprites, Packages, Assembly-CSharp.csproj, gameRPG.sln, README.md), Scripts (MovementController.cs selected).
- Code Editor:** MovementController.cs (C# script)

```
Assets > Scripts > MovementController.cs > MovementController.cs

1 using System.Collections;
2 using System.Collections.Generic;
3 using UnityEngine;
4
5 public class MovementController : MonoBehaviour
6 {
7     //Velocidad de los personajes
8     public float movementSpeed = 3.0f;
9     //Representa la ubicación del Player o Enemy
10    Vector2 movement = new Vector2();
11    //Referencia a Rigidbody 2D
12    Rigidbody2D rb2D;
13    // Start is called before the first frame update
14    void Start()
15    {
16        rb2D = GetComponent();
17    }
18
19    // Update is called once per frame
20    void Update()
21    {
22    }
23
24 }
```
- Bottom Bar:** ESQUEMA, LÍNEA DE TIEMPO, EXPLORADOR DE SOLUCIONES, Proyectos, Debug Any CPU, Live Share, Git Graph, Líne. 20, col. 1, Espacios: 4, UTF-8, CRLF, Buscar, Buscar icon, Windows icon.

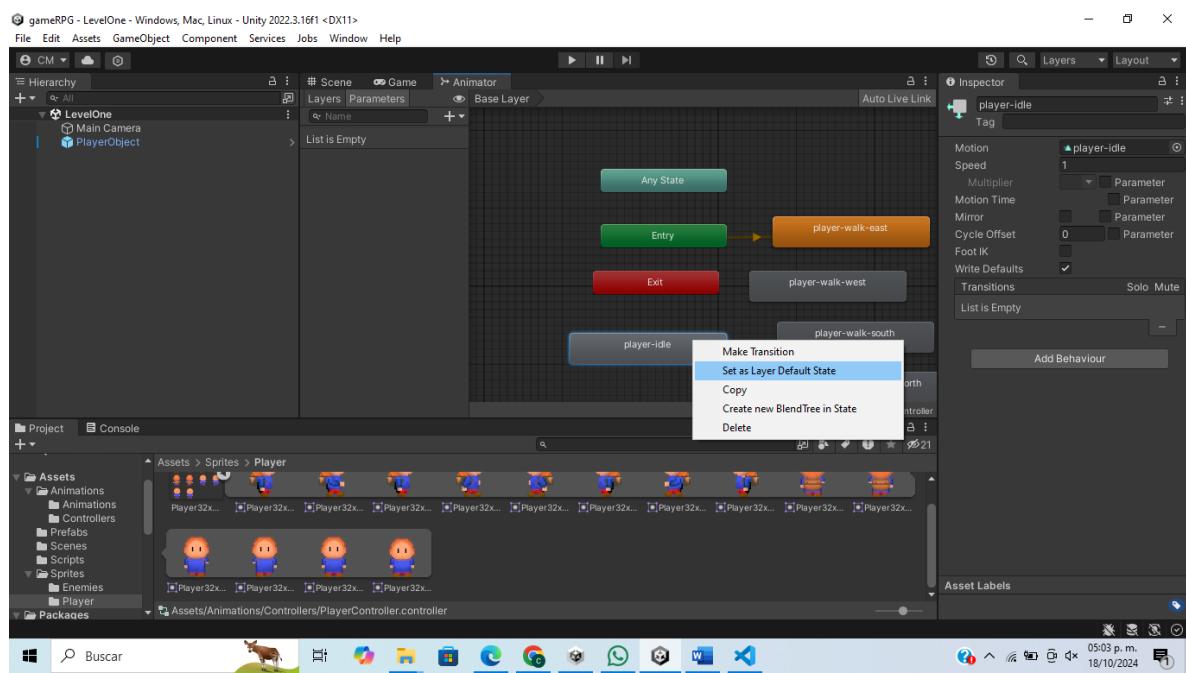
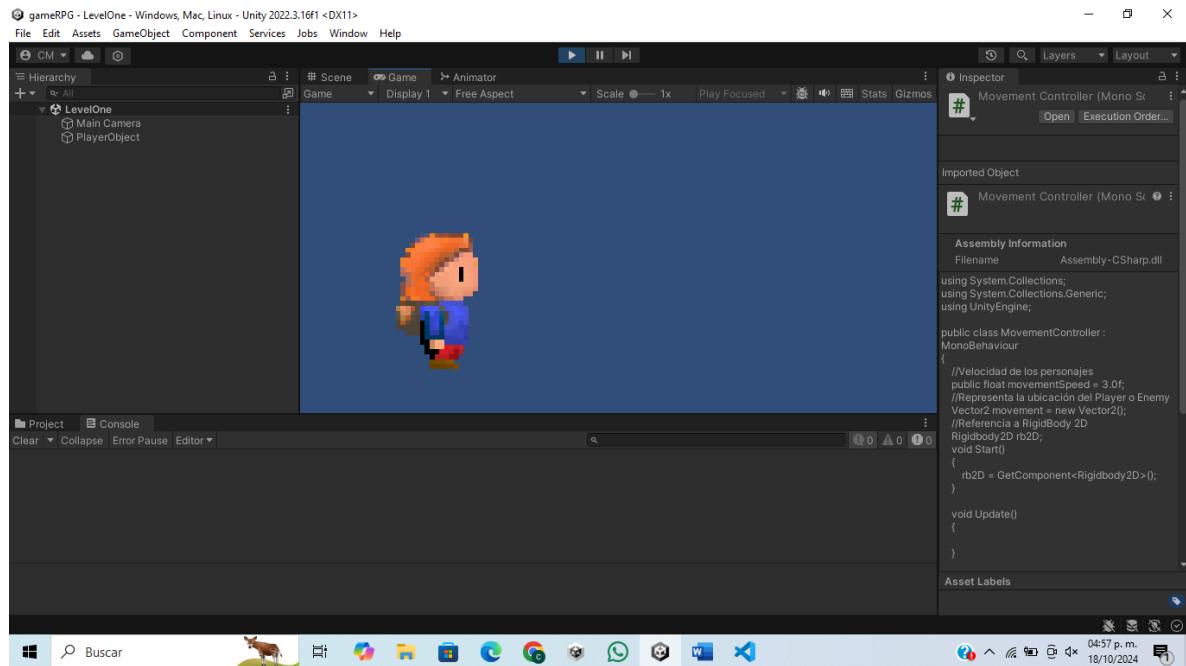
The screenshot shows the Visual Studio Code interface with the following details:

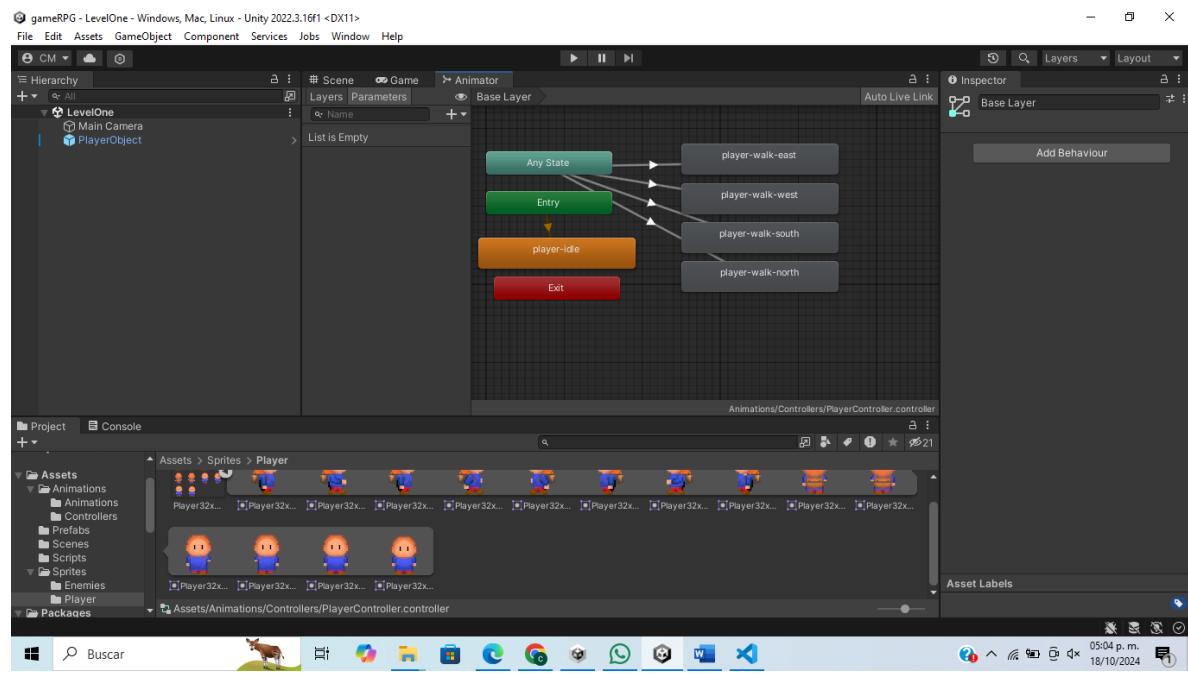
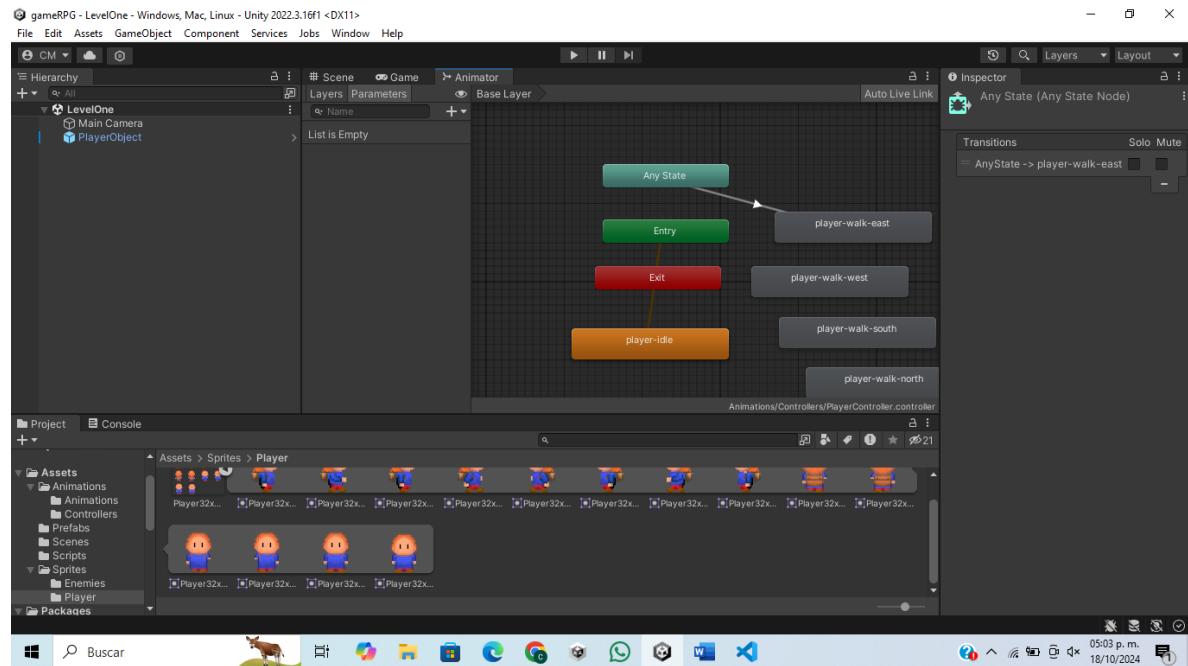
- File Explorer:** Shows the project structure for "GAMERPG". The "Scripts" folder contains the "MovementController.cs" file, which is currently open.
- Editor:** The code editor displays the "MovementController.cs" script. The code defines a class "MovementController" that inherits from "MonoBehaviour". It includes two methods: "Update()" and "FixedUpdate()". The "Update()" method reads user input for horizontal and vertical movement and normalizes the movement vector. The "FixedUpdate()" method applies the normalized movement to a rigid body with a fixed update frequency of 100 Hz.
- Bottom Bar:** Includes tabs for "ESQUEMA", "LÍNEA DE TIEMPO", and "EXPLORADOR DE SOLUCIONES".
- Bottom Status Bar:** Shows the current line (Líne 24), column (col 5), and encoding (UTF-8). It also includes icons for CRLF, search, and file operations.

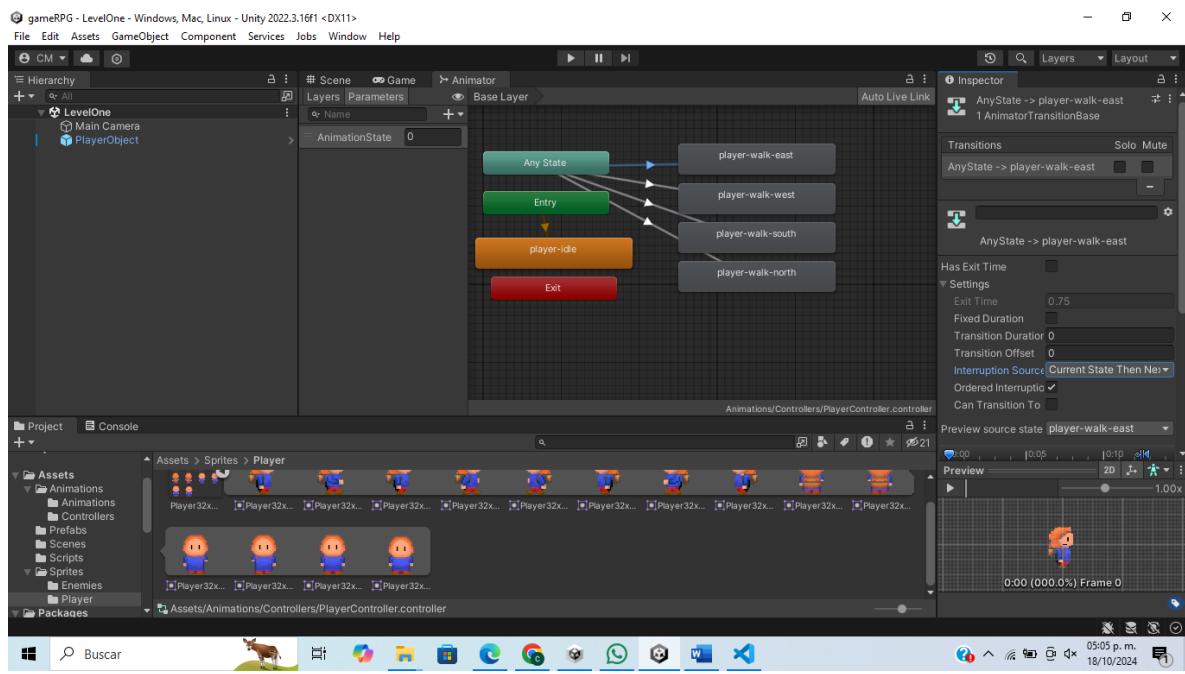
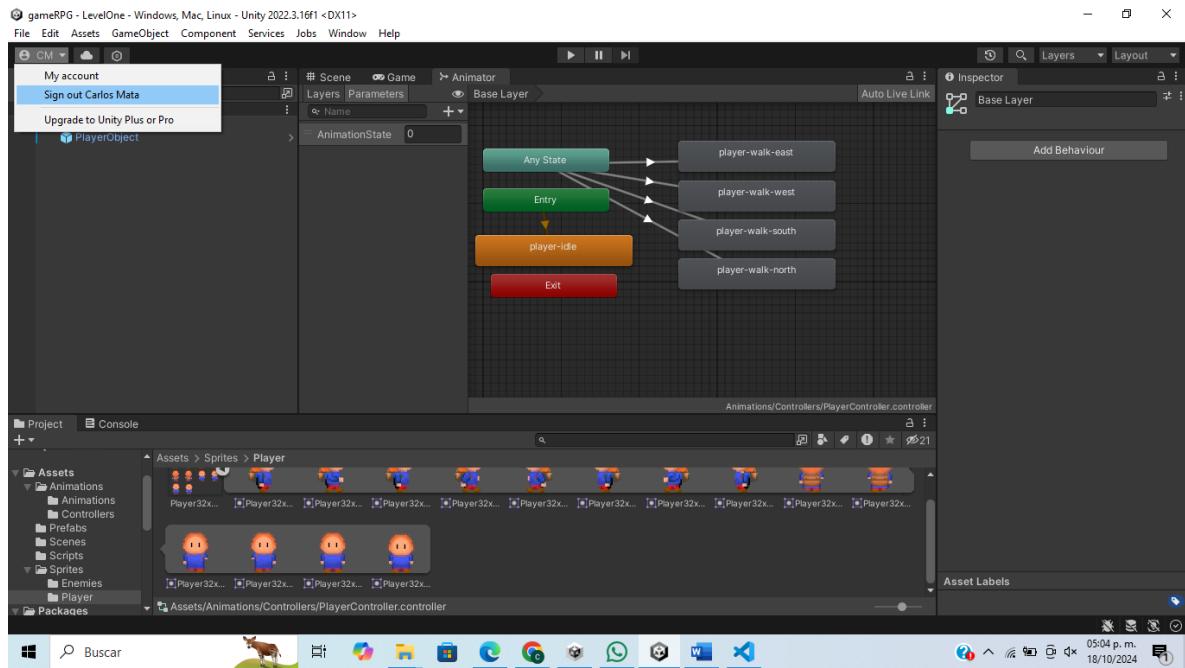
```
public class MovementController : MonoBehaviour
{
    public Vector2 movement;
    public float movementSpeed = 10f;
    public float rotationSpeed = 100f;

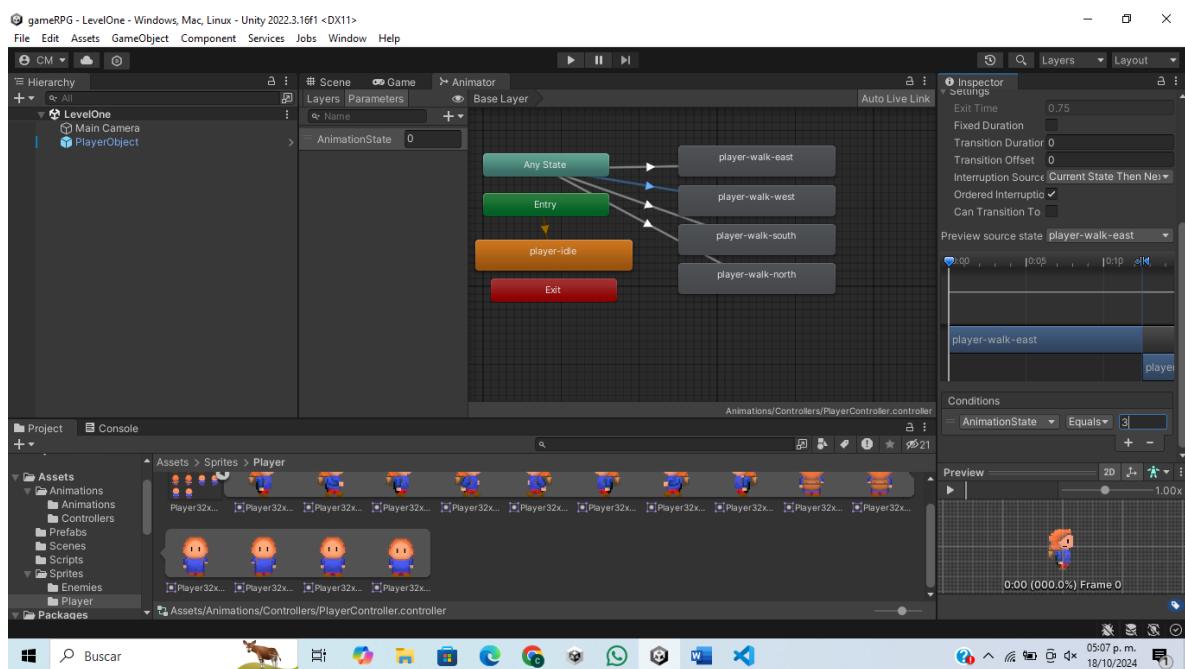
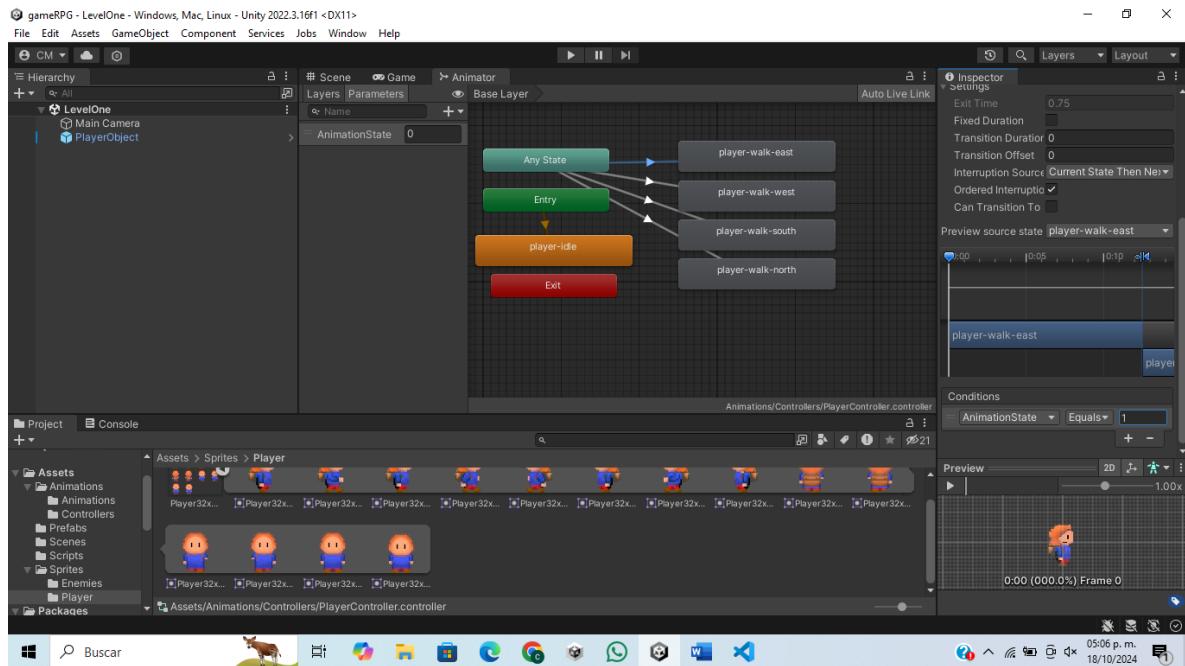
    void Update()
    {
        movement.x = Input.GetAxisRaw("Horizontal");
        movement.y = Input.GetAxisRaw("Vertical");
        movement.Normalize();
        rb2D.velocity = movement * movementSpeed;
    }

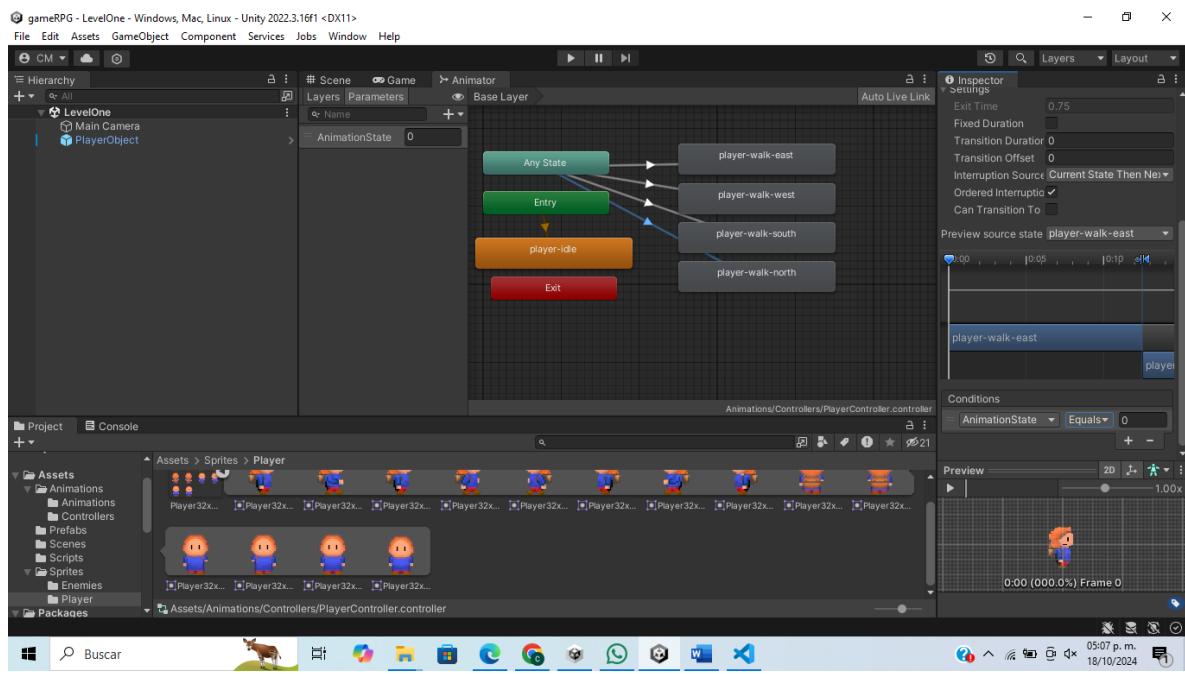
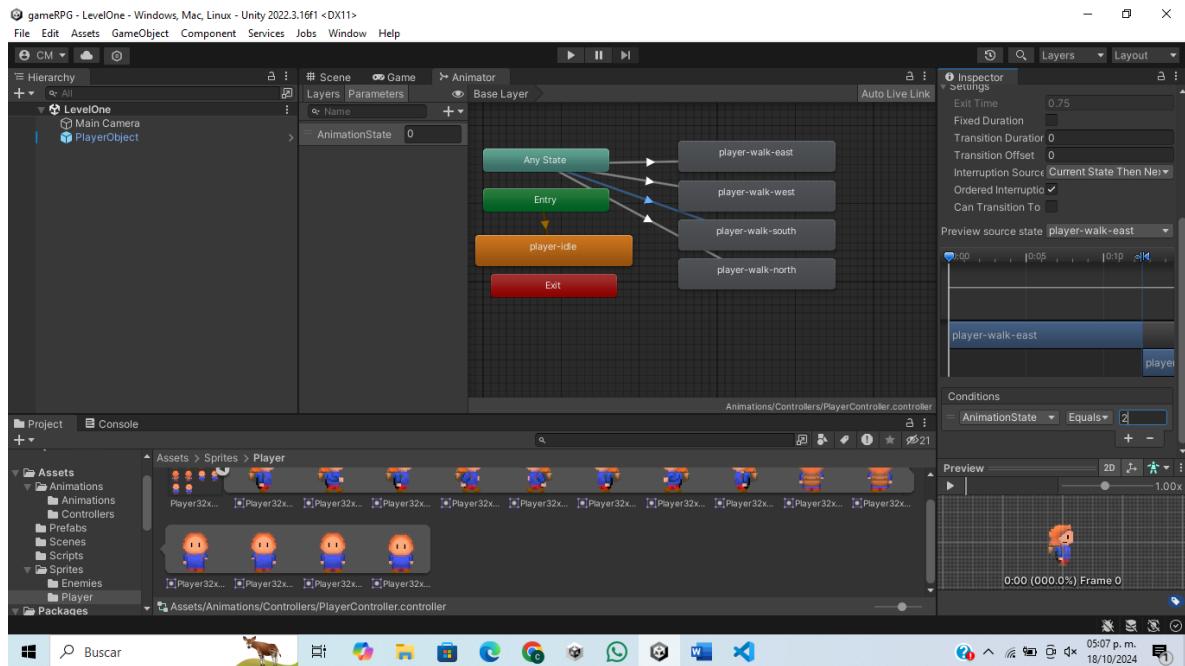
    void FixedUpdate()
    {
        rb2D.angularVelocity = movement.y * rotationSpeed;
    }
}
```











The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer (Left):** Shows the project structure under "GAMERPG".
- Code Editor (Center):** Displays the "MovementController.cs" script. The code defines a MonoBehavior class with a Rigidbody2D component, an Animator component, and an enum for character states (walkEast, walkSouth, walkWest, walkNorth, idleSouth). It includes Start() and Update() methods.
- Bottom Bar:** Includes tabs for "Buscar" (Search), "Live Share", and "Git Graph".
- Status Bar (Bottom Right):** Shows file information like "Lin. 16, col. 5", "Espacios: 4", "UTF-8", "CRLF", and a timestamp "05:09 p.m. 18/10/2024".

This screenshot is identical to the first one, but the cursor is positioned over the "animator" variable in the "Start" method of the "MovementController.cs" script.

The screenshot shows the Unity Editor interface with the 'MovementController.cs' script open in the code editor. The script defines the 'Update' method which calls the 'UpdateState' method. The 'UpdateState' method checks movement direction and sets animator states accordingly. It also includes an 'Idle' state logic.

```
void Update()
{
    this.UpdateState(); //Invoca al método
}

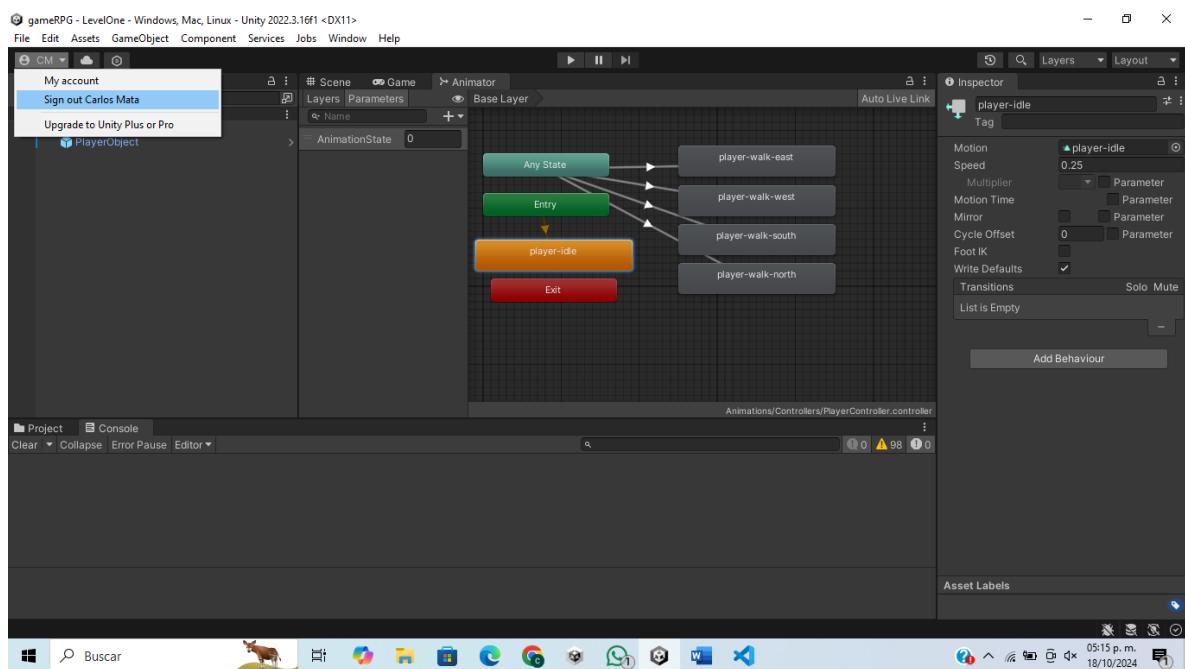
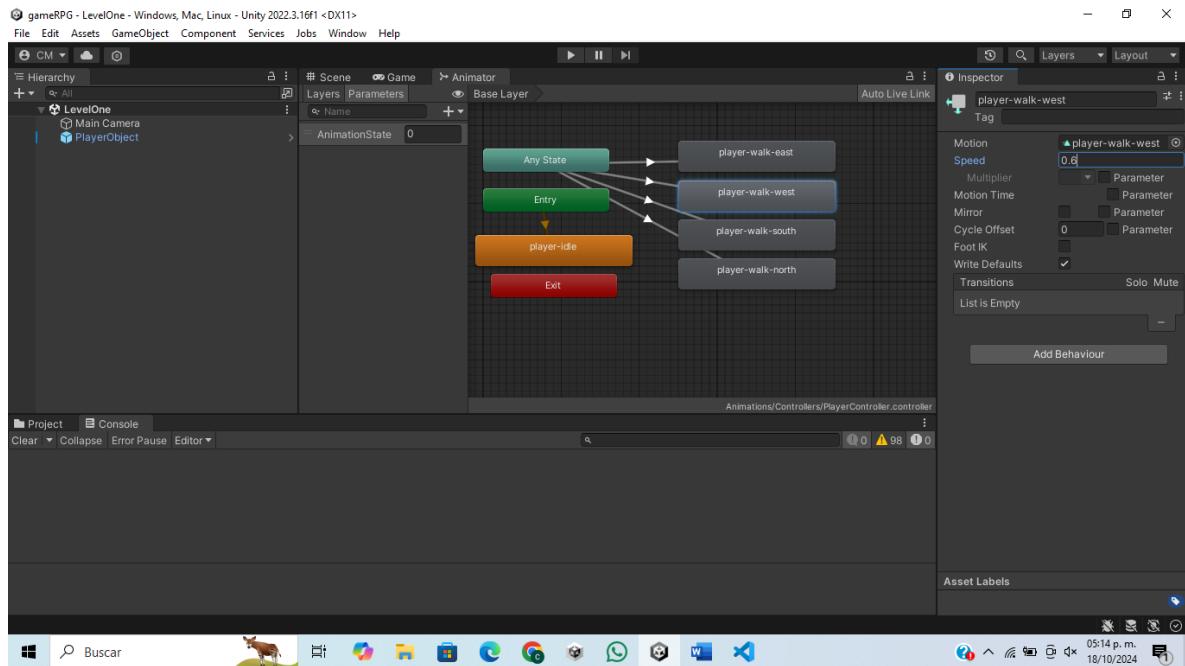
/* Método que define la definición a ejecutar en base al movimiento realizado por el usuario.
 */
private void UpdateState()
{
    if (movement.x > 0)
    {
        //ESTE
        animator.SetInteger(animationState, (int)CharStates.walkEast);
    }
    else if (movement.x < 0)
    {
        //OESTE
        animator.SetInteger(animationState, (int)CharStates.walkWest);
    }
    else if (movement.y > 0)
    {
        //NORTE
        animator.SetInteger(animationState, (int)CharStates.walkNorth);
    }
    else if (movement.y < 0)
    {
        //SUR
        animator.SetInteger(animationState, (int)CharStates.walkSouth);
    }
    else
    {
        //IDLE
        animator.SetInteger(animationState, (int)CharStates.idleSouth);
    }
}
```

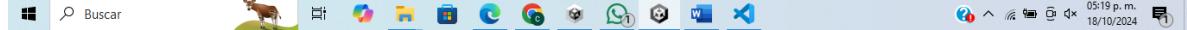
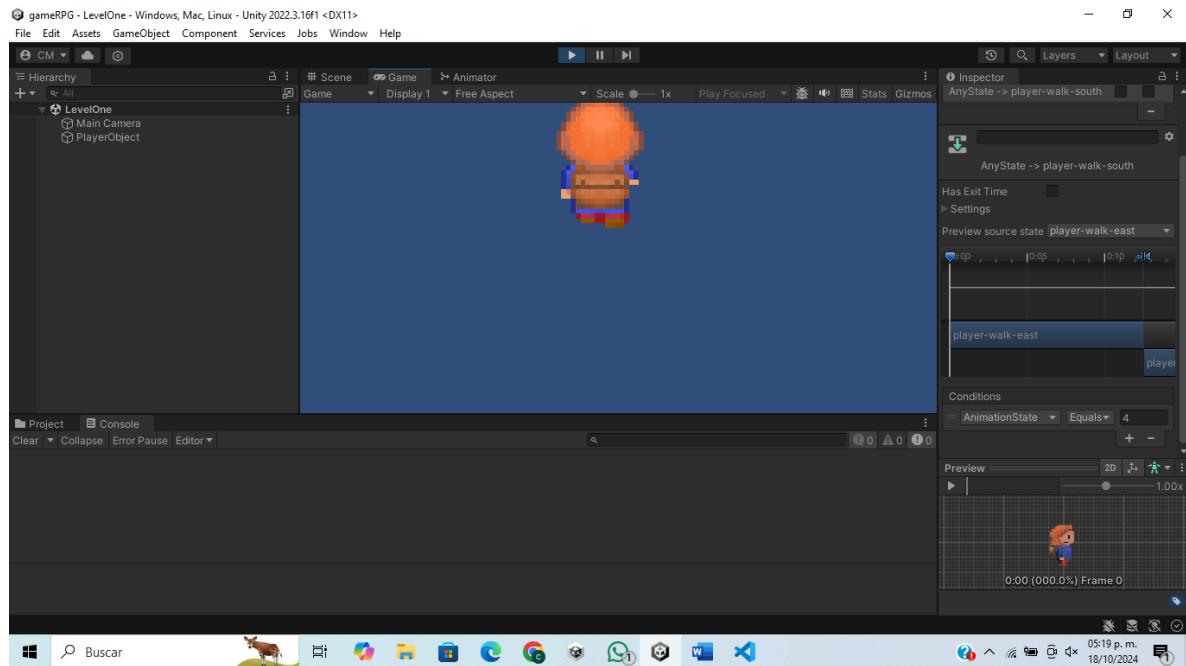
The screenshot shows the Unity Editor interface with the 'MovementController.cs' script open in the code editor. A new 'MoveCharacter' method has been added below the existing methods. This method uses Input.GetAxisRaw to capture user input for horizontal and vertical movement, normalizes the movement vector, and applies it to the character's rigidbody velocity.

```
else
{
    //IDLE
    animator.SetInteger(animationState, (int)CharStates.idleSouth);
}

private void FixedUpdate()
{
    MoveCharacter(); // Método definido para ingresar la dirección
}

private void MoveCharacter()
{
    //Captura los datos de entrada del usuario
    movement.x = Input.GetAxisRaw("Horizontal");
    movement.y = Input.GetAxisRaw("Vertical");
    //Conserva el rango de velocidad
    movement.Normalize();
    rb2D.velocity = movement * movementSpeed;
}
```





05:19 p.m.
18/10/2024