```
1 //Telling what libraries we can get components from.
 2 using System.Collections;
 3 using System.Collections.Generic;
 4 using UnityEngine;
 6 public class Player_Movement : MonoBehaviour {
 7
        //defining variables
        public bool CanMove;
 8
 9
10
        Rigidbody2D rbody;
11
        Animator anim;
12
13
14
        // Use this for initialization
15
        void Start () {
16
            //setting the names to the actual components inside unity.
17
            rbody = GetComponent<Rigidbody2D>();
18
            anim = GetComponent<Animator>();
19
20
            CanMove = true;
21
        }
22
23
        // Update is called once per frame
24
        void Update()
25
        {
26
            //this statement makes sure that if that the character has restricted
              movement or !CanMove, that the player's velocity is set to zero.
27
            if(!CanMove)
28
            {
29
                rbody.velocity = Vector2.zero;
30
                return;
31
            }
32
33
            //Play can only move in x and y direction cause its a 2-D game, if we
              wanted 3D we would use Vector3
35
            Vector2 movement_vector = new Vector2(Input.GetAxisRaw("Horizontal"),
              Input.GetAxisRaw("Vertical"));
36
37
            //An imput on keys will now change the movement vectors
38
            if (movement_vector != Vector2.zero)
39
            {
40
                anim.SetBool("iswalking", true);
                anim.SetFloat("input_x", movement_vector.x);
41
42
                anim.SetFloat("input_y", movement_vector.y);
43
44
            }
45
            else
46
47
                anim.SetBool("iswalking", false);
48
49
            }
```

```
...s\FBLA Pranay Appikatla\Assets\Scripts\Player_Movement.cs
```

```
50
51     //actually move the rbody (player)
52     rbody.MovePosition(rbody.position + movement_vector * Time.deltaTime);
53
54
55   }
56
57
58 }
```

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