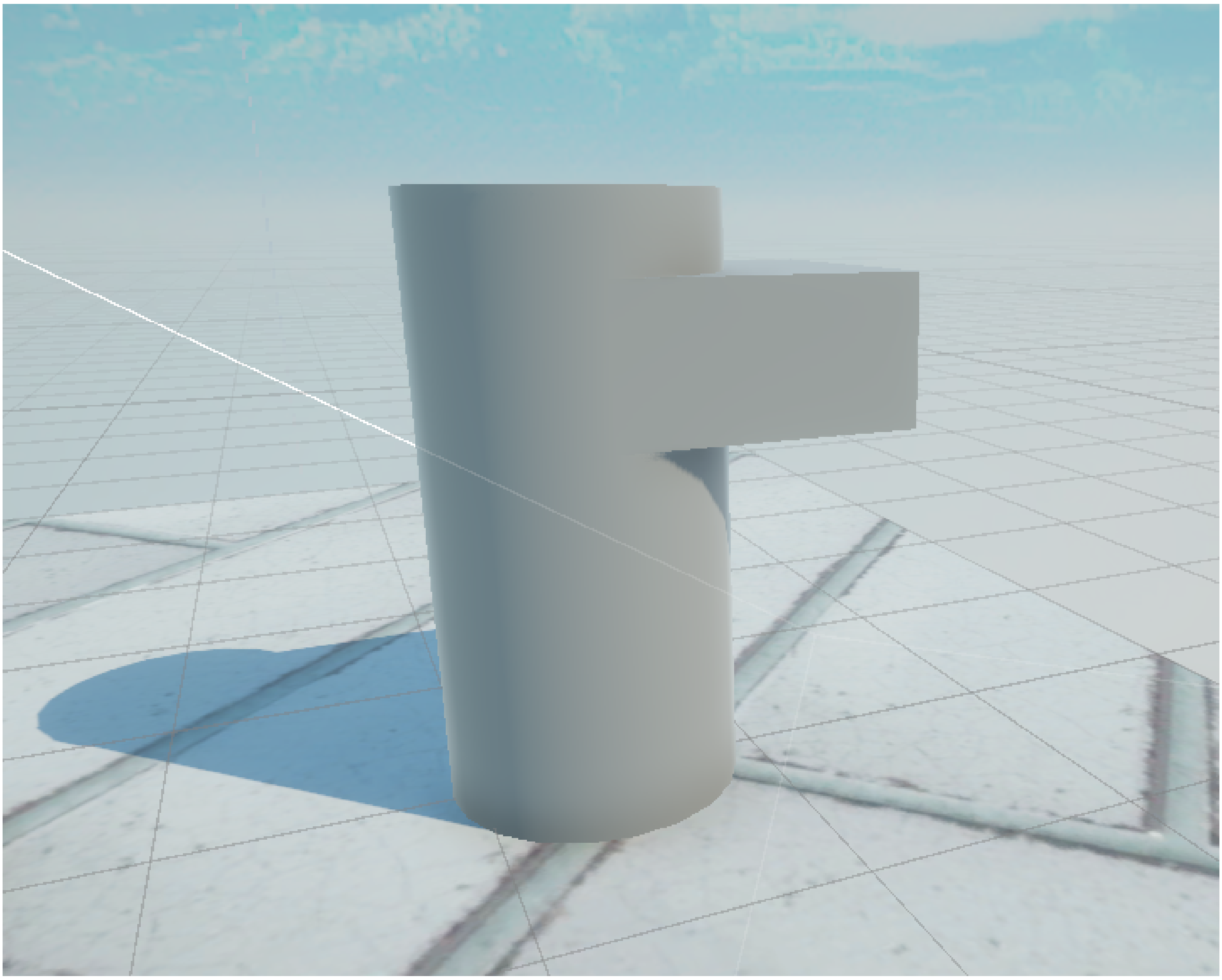
[illegible]

[illegible]

- Cinemachine
- Input System

[illegible]

- [illegible]GameObject,[illegible]PersionGroup
- [illegible]PersionGroup[illegible](cylinder)[illegible]Persion
- [illegible]Persion[illegible](cube),[illegible]



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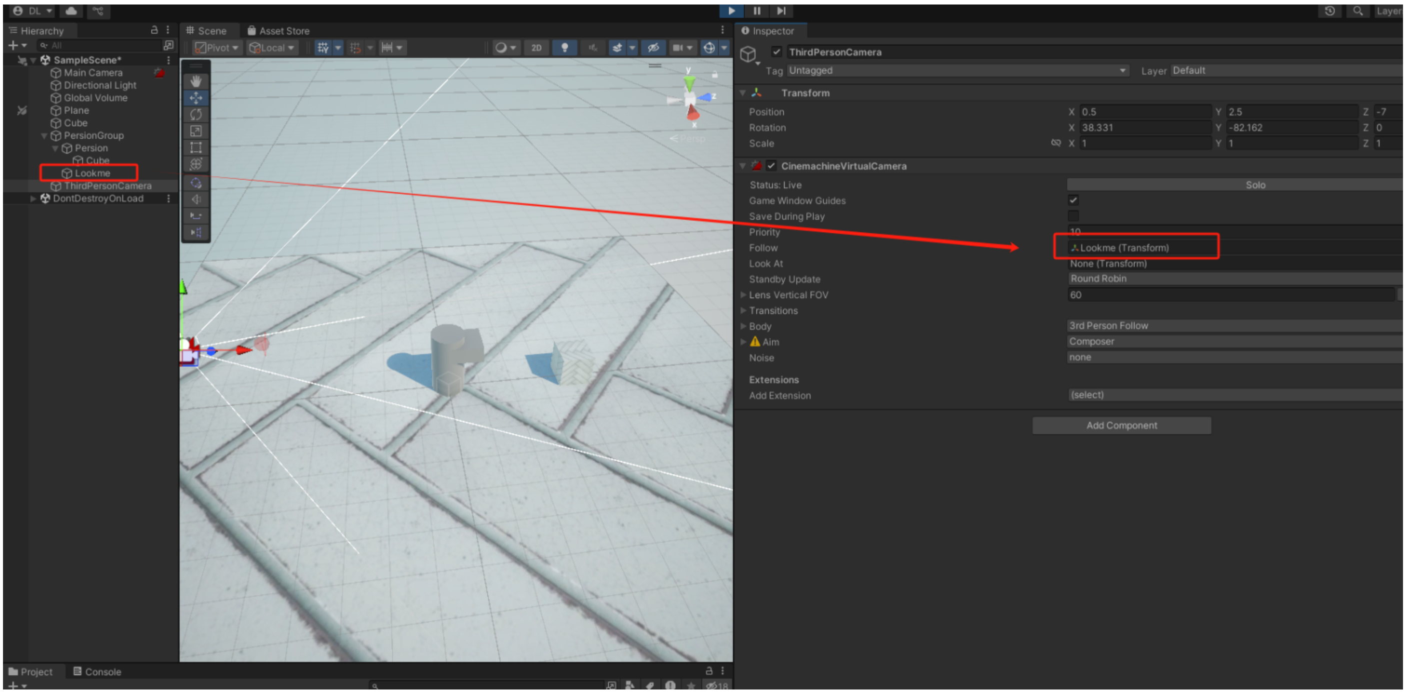
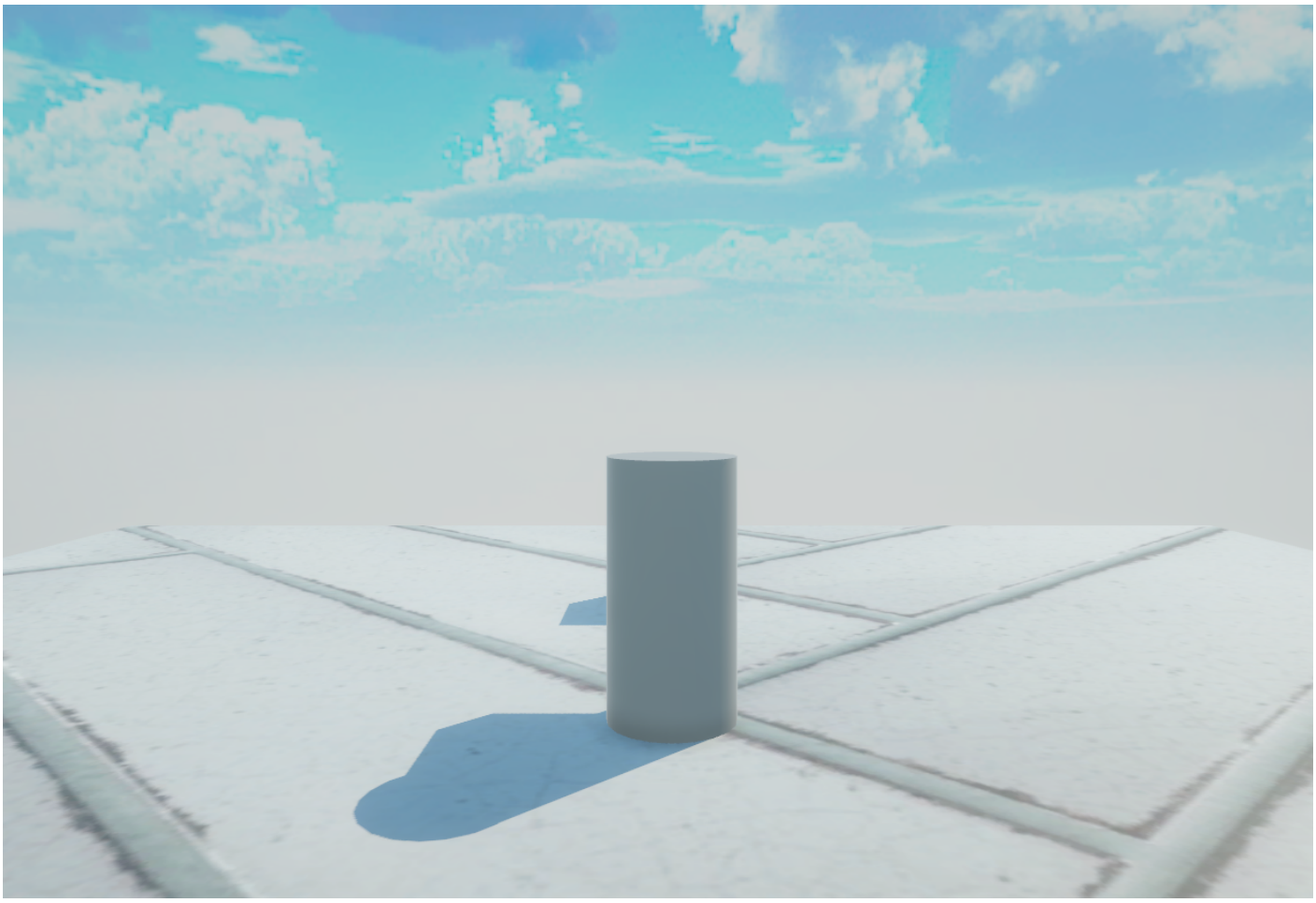
- □PersionGroup□□□□□□□□□□□□Lookme□□□□□□□□□□□□□□positon:0,0,0
- □□□□□□□□□□□□□GameObject□□->Cine machine->Virtual Camera□□□□ThirdPersonCamera□□□□□□□□□B
- □Lookmet□□3rd□□□□follow□



- □□□□□□□□□□□
    - Third Person Camera lens□□□□□□□
        - Vertical Fov:□□□□□□□□□60□□□□□□□□□
        - dutch□□□□□□□□□□□□□□□0
    - Third Person Camera body□□□□□□
        - Shoulder Offset□□□□□3rd□□□□□□□□
        - Vertical Arm Length□□□□□□□□□□□□□□□
        - Camera Side□□□□□□□□□□□□□
        - Camera Distance□□□□□□□□□□□□□

□□□□lookme□pos**Third Person Camera**□□□lookme□□□



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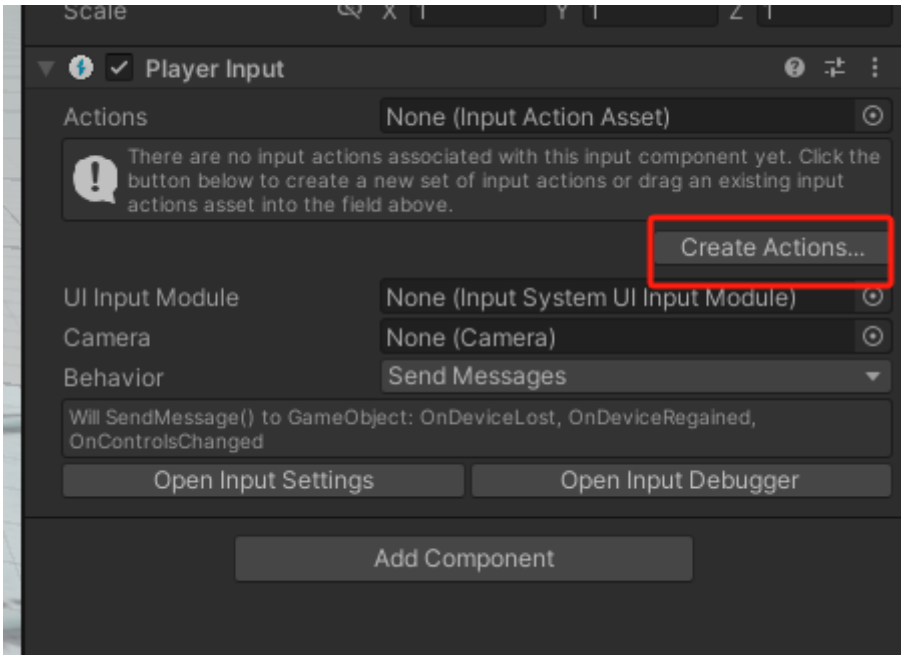
- □PersionGroup□□□□□input,□□player input□□□□□□□create actions



- □□2□□□ThirdPersonCameraLook.cs□ThirdPersonCameraMove.cs□□□□□□□□□□□□□
- □□□□**ThirdPersonCameraLook.cs**□□□□□□□PersionGroups□

```
using System.Collections;
using System.Collections.Generic;
using UnityEngine;
using UnityEngine.InputSystem;

public class ThirdPersonCameraLook : MonoBehaviour
{
    private GameObject mainCamera;

    [Header("Cinemachine")]
    [Tooltip("□□□□")]
    public GameObject CameraTarget;

    [Tooltip("□□□□□□□")]
    public float TopClamp = 70.0f;

    [Tooltip("□□□□□□□")]
    public float BottomClamp = 0.0f;

    [Tooltip("□□□□□□")]
    public float RotationSpeed = 1.0f;

    // □□□□
    private const float threshold = 0.01f;
    // □□□□□ Y □□□□□
    private float cinemachineTargetYaw;
    // □□□□□ X □□□□□
    private float cinemachineTargetPitch;
    // □□□□□□□□□□□□
    private Vector2 lookup;
    // □□□□□□□□
    private bool isRotateing = false;
    void Start()
    {
        if (mainCamera == null)
        {
            // □□□□□□□□□□
            mainCamera = GameObject.FindGameObjectWithTag("MainCamera");
        }
        // □□□□□□□□ Y □□□□□
```

```
        cinemachineTargetYaw = CameraTarget.transform.rotation.eulerAngles.y;
    }

    // Update is called once per frame
    void Update()
    {
        // □□□□□□□□□□
        isRotateing = Mouse.current.rightButton.isPressed;
        // □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
        if (isRotateing && lookup.sqrMagnitude >= threshold)
        {
            cinemachineTargetYaw += lookup.x;
            cinemachineTargetPitch += lookup.y;
        }
        // □□□□□□□□□□□□□□□□□□
        cinemachineTargetYaw = ClampAngle(cinemachineTargetYaw, float.MinValue,
float.MaxValue);
        cinemachineTargetPitch = ClampAngle(cinemachineTargetPitch, BottomClamp, TopClamp);

        // □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
        // Quaternion targetRotation = Quaternion.Euler(cinemachineTargetPitch,
cinemachineTargetYaw, 0.0f);
        // CameraTarget.transform.rotation = Quaternion.Lerp(CameraTarget.transform.rotation,
targetRotation, Time.deltaTime * RotationSpeed);
        // □□□□□□□
        CameraTarget.transform.rotation = Quaternion.Euler(cinemachineTargetPitch,
cinemachineTargetYaw, 0.0f);
    }
    // □□□□□□□□□□
    private static float ClampAngle(float angle, float min, float max)
    {
        if (angle < -360.0f)
        {
            angle += 360.0f;
        }
        if (angle > 360.0f)
        {
            angle -= 360.0f;
        }
        return Mathf.Clamp(angle, min, max);
```

```
    }

    public void OnLook(InputValue value)
    { // □□□□□□□□□□□□
        lookup = value.Get<Vector2>();
    }
}
```

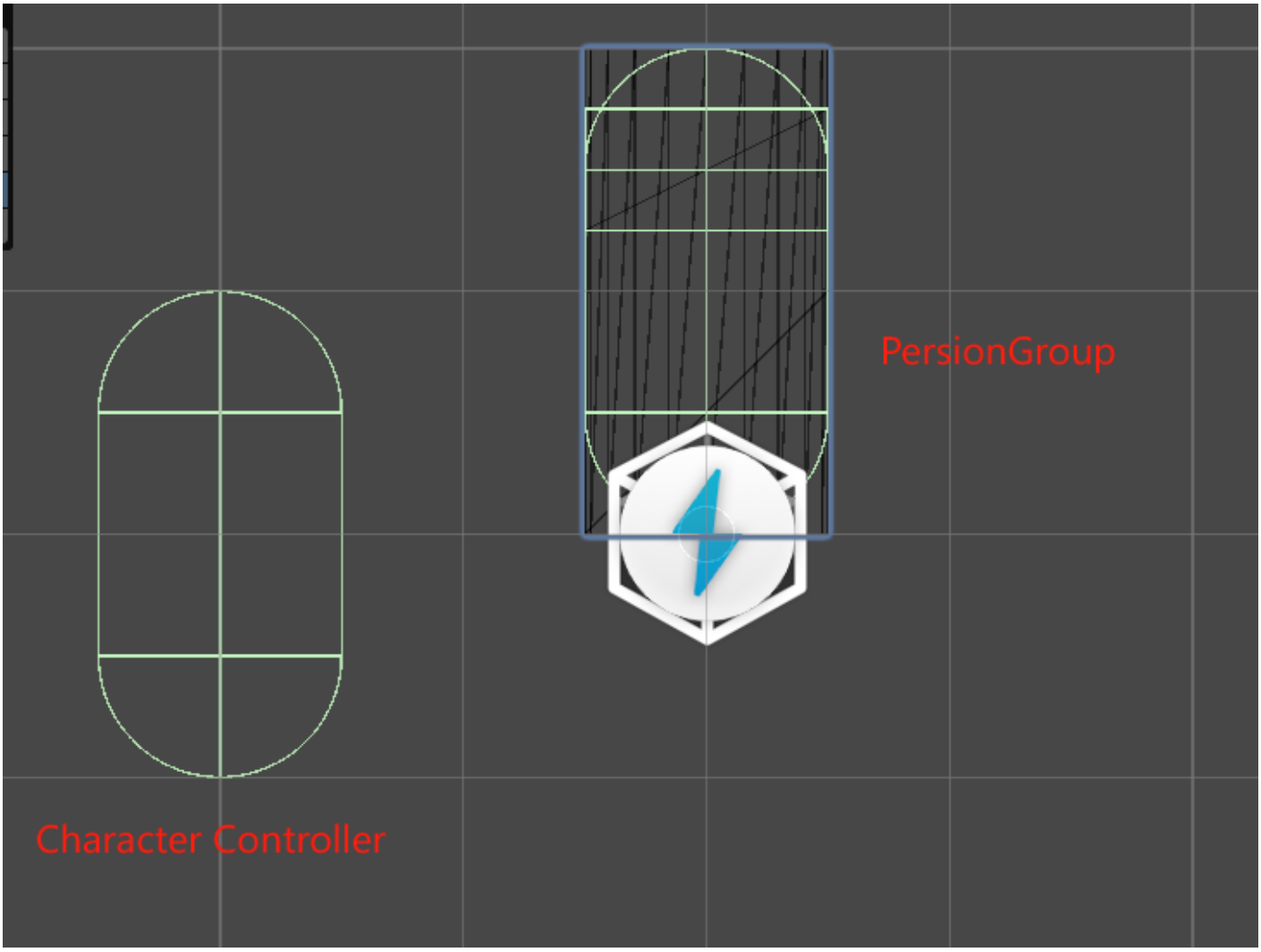
- □□**ThirdPersonCameraLook.cs**□□□□□□□PersionGroup□

```
using System.Collections;
using System.Collections.Generic;
using UnityEngine;
using UnityEngine.InputSystem;

public class ThirdPersonCameraMove : MonoBehaviour
{

    // □□□□□□□□
    private GameObject mainCamera;
    // □□□□□□□□□
    private CharacterController controller;

    // □□□□□
    private Vector2 moveValue;

    //   □□□□
    [Tooltip("□□□□")]
    public float speed = 1.0f;
    // □□□□□□
    private float targetRotation = 0.0f;

    // □□□□□□
    public float RotationSmoothTime = 0.1f;
    // □□□□
    private float rotationVelocity = 0.0f;

    void Start()
```

```
    {
        if (mainCamera == null)
        {
            mainCamera = GameObject.FindGameObjectWithTag("MainCamera");
        }
        // □□□□□□□□□□
        controller = GetComponent<CharacterController>();
    }



    void Update()
    {
        // □□□□□Y□□□□
        Vector3 velocity = new Vector3(0, -1, 0);
        if (moveValue != Vector2.zero)
        {
            // □□□□□□□□□□□□□□□
            Vector3 inputDir = new Vector3(moveValue.x, 0.0f, moveValue.y).normalized;
            // □□□□□□□□
            targetRotation = Mathf.Atan2(inputDir.x, inputDir.z) * Mathf.Rad2Deg +
mainCamera.transform.eulerAngles.y;

            // □□□□
            float rotation = Mathf.SmoothDampAngle(transform.eulerAngles.y, targetRotation,
ref rotationVelocity, RotationSmoothTime);
            // □□□□
            transform.rotation = Quaternion.Euler(0.0f, rotation, 0.0f);
            // □□□□□□
            Vector3 targetDir = Quaternion.Euler(0.0f, targetRotation, 0.0f) *
Vector3.forward;
             // □□□□□Y□□□□
            velocity += targetDir.normalized * (speed * Time.deltaTime);
            // □□□□
            // controller.Move(targetDir.normalized * (speed * Time.deltaTime));
        }
    }

    void OnMove(InputValue inputValue)
    {
        moveValue = inputValue.Get<Vector2>();
```

```
    }

}
```

- □PersonGroup□□□□**Character Controller**,□□center□Y□□□**Character Controller**□□□□□□PersonGroup□□□□□□□□□□**Character Controlle**□□□□□□□□□□□□□□□□□□□□□□□□Center□□□□PersonGroupw□□□□



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