BEFORE STARTING

Create a new (3D) project with a sample scene with an interactable environment. This should include a floor and terrain like objects for our character to interact with. It is also advisable to have rudimentary lighting set up.

1: PLAYER OBJECT MODELING AND CAMERA MOVEMENT

Create an empty object and name it something memorable like "First Person Player". Add a Character Controller component. Enabling Gizmos will enable you to see an outline of the controller in the developer view to see if, later on, that the character model is successfully rotating. Edit the Radius and Height appropriate to the scene you are working with. Create a cylinder under your First Person Player with its X and Y values being double of the empty object's radius and half the height. This will act as your collision detection as well.

Move the camera under the First Person Player object. Reset its' transform and move it vertically to just under the top of our cylinder, leaving it clipped inside the visible object. Add a new component script (MouseLook in this example). Code is provided below:

2: PLAYER OBJECT MOVEMENT

Under our player object, add a new component script (PlayerMovement in this example). Code is provided below:

```
□using System.Collections;
 using System.Collections.Generic;
using UnityEngine;
Epublic class PlayerMovement : MonoBehaviour
     public CharacterController controller;
     //object to be moved using arrow keys or WASD
     public float speed = 12f;
     //public speed variable (can be change in unity IDE)
     // Update is called once per frame
     void Update()
         float x = Input.GetAxis("Horizontal");
         float z = Input.GetAxis("Vertical");
         Vector move = tranform.right * x + transofrm.forward * z;
         //Creates a simple vector depending on the value of the keyboard input
         controller.Move(move * speed * time.deltaTime);
         //Applying the move vector to the player object
```

At this point, the player movement and camera should be functional. Mess around with Character Controller component values in order to better interact with the scene.