| INDEX | | |
|--------------|--|------|
| Practical no | Aim | Date |
| 1 | Write a python program to perform translation operation on rectangle by taking initial coordinates from user. | |
| 2 | Write a python program to perform scaling operation on triangle by taking initial coordinates from user. | |
| 3 | Write a python program to perform reflection operation on polygon by taking initial coordinates from user. | |
| 4 | Write a python program to rotate right angle triangle by 45 degree by taking initial coordinates from user. | |
| 5 | Write a python program to perform shearing on rectangle in positive direction of x-axis by taking initial coordinates from user. | |
| 6 | Write a python program to create below shape and perform reflection about parallel to y-axis, followed by translation and scaling operation on it. | |
| 7 | Implement space invader game in python using pygame module. | |
| 8 | Implement Snake game in python using pygame module. | |
| 9 | Implement 2D UFO game using unity. | |
| 10 | Implement 3D roll ball game using unity. | |

Practical No9:

Aim: Implement 2D UFO game using unity

Code:

PlayerController.cs

```
Rotatorics CameraController: PagerController | P
```

CameraController.cs

```
Rotators

CameraControllers

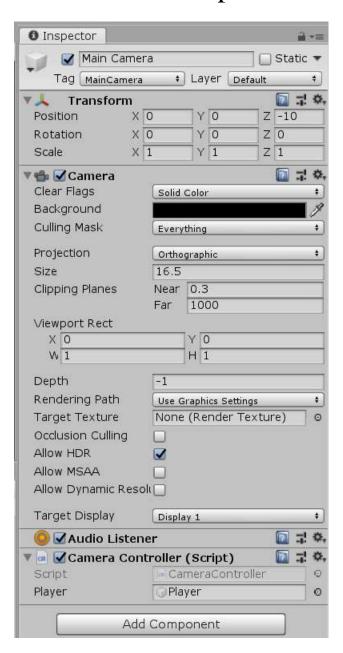
Assembly-CSharp

CameraController

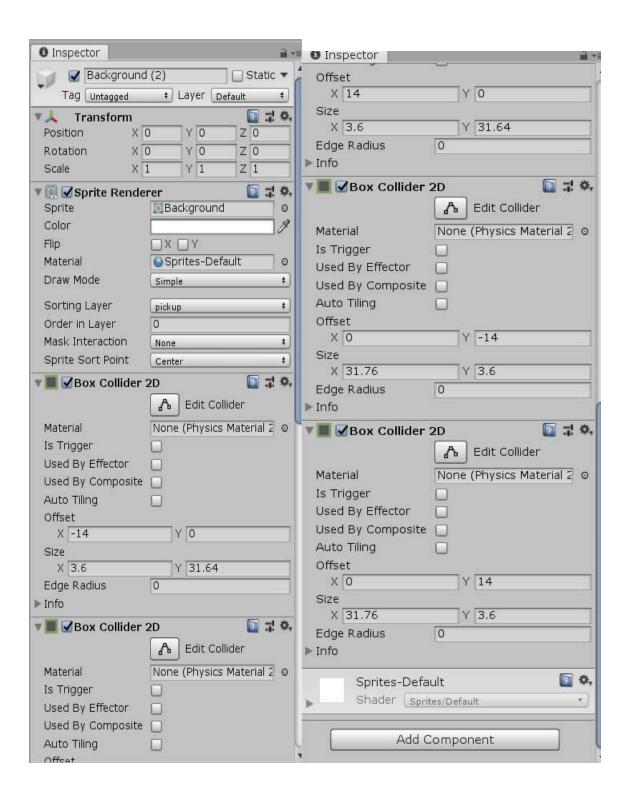
Ca
```

Rotator.cs

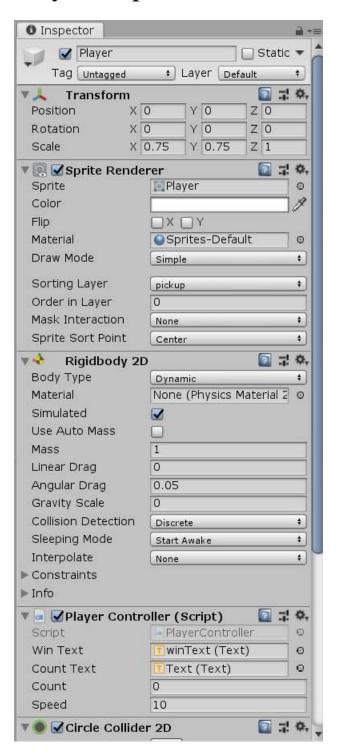
Main Camera Inspector







Player Inspector



Output:



Practical No₁₀:

Aim: Implement 3D roll ball game using unity.

Code:

PlayerController.cs

```
Rotatorics
                     CameraController.cs
Assembly-CSharp
                                                              - RayerController
                                                                                                                                - • speed
                  using UnityEngine;
                 using UnityEngine UI;
               public Text wintext;
public Text counttext;
                     public float speed;

// Start is called before the first frame update

O many Messgel D references

would Start ()
                            count = 0;
wintext.text = "";
rb = GetComponent<(Ligidbody>();
                             SetCountText();
                       // Update is called once per frame
O UnityNewsage|Ordiversa
void FixedUpdate()
                             float moveMerizontal = Input.GetAxis("Merizontal");
float moveVertical = Input.GetAxis("Vertical");
Vector3 movement = new Vector3(moveMerizontal, 0.0f, moveVertical);
rb.Addforce(movement = speed);
                        O Unit Memoral Disferences
void OnTriggerEnter(Collider other)
                              if (other.gameObject.CompareTag("FickUp"))
                                    other.gomeObject.SetActive(false);
                                                                                                                                                                     Lnr 12 Chr 24 SPC CRLF
```

```
| count = count + 1;
| setCountText();
| count = "setCountText();
| count = "setCountText() |
| counttext.text = "setCountText();
| counttext();
```

CameraController.cs

```
Retatorics

CameraController/S * PayerController/S

Assembly CSharp

* CameraController

* Using System. Collections;

using Unity System. Collections General;

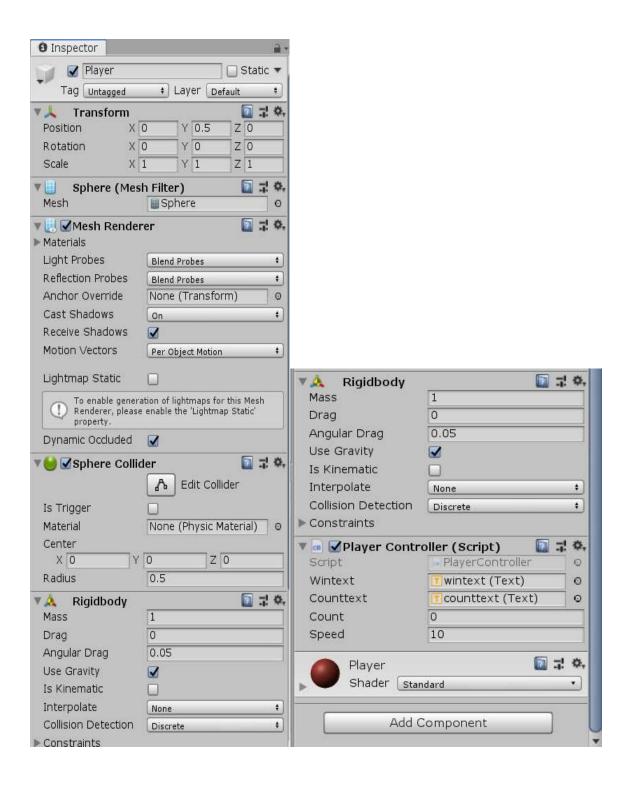
public GameraController : MonoBehaviour

( private Vectors offset;

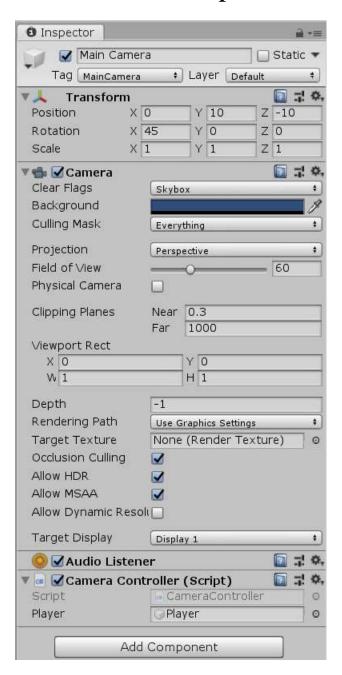
public GameraCont
```

Rotator.cs

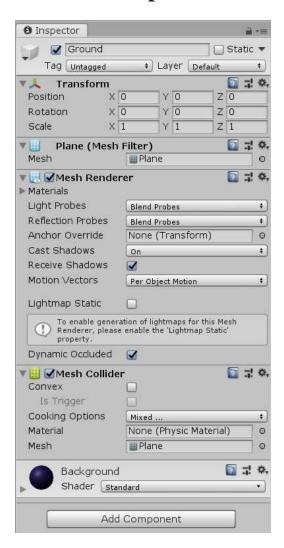
Player Inspector



Main Camera Inspector



Ground Inspector



Output:

