## LAPORAN KOMPUTASI MULTIMEDIA

## Pertemuan 6



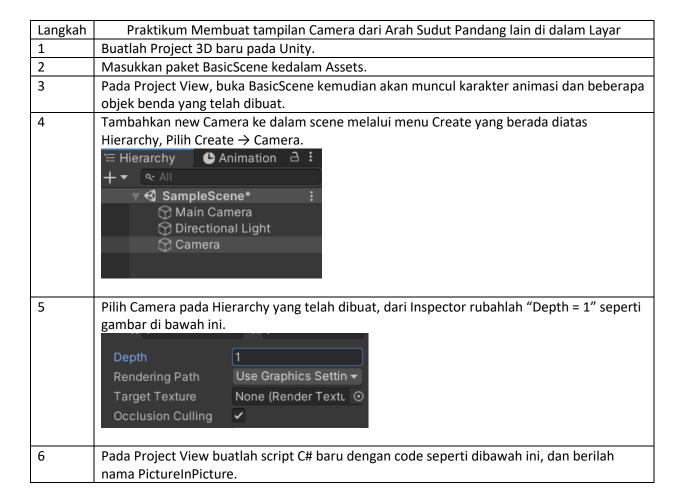
#### Oleh:

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# PROGRAM STUDI TEKNIK INFORMATIKA JURUSAN TEKNOLOGI INFORMASI POLITEKNIK NEGERI MALANG MARET 2021



```
using UnityEngine;
public class PictureInPicture: MonoBehaviour {
public enum hAlignment{left, center, right};
public enum vAlignment{top, middle, bottom};
public hAlignment horAlign = hAlignment.left;
public vAlignment verAlign = vAlignment.top;
public enum UnitsIn{pixels, screen_percentage};
public UnitsIn unit = UnitsIn.pixels;
public int width = 50;
public int height= 50;
public int xOffset = 0;
public int yOffset = 0;
public bool update = true;
private int hsize, vsize, hloc, vloc;
void Start (){
AdjustCamera ();
void Update (){
if(update)
AdjustCamera ();
void AdjustCamera(){
int sw = Screen.width;
int sh = Screen.height;
float swPercent = sw * 0.01f;
float shPercent = sh * 0.01f;
float xOffPercent = xOffset * swPercent;
float yOffPercent = yOffset * shPercent;
int xOff;
int yOff;
if(unit == UnitsIn.screen_percentage){
hsize = width * (int)swPercent;
vsize = height * (int)shPercent;
xOff = (int)xOffPercent:
yOff = yOffset;
switch (horAlign) {
case hAlignment.left:
hloc = xOff;
break;
case hAlignment.right:
int justifiedRight = (sw - hsize);
hloc = (justifiedRight - xOff);
case hAlignment.center:
float justifiedCenter = (sw * 0.5f) - (hsize * 0.5f);
hloc = (int)(justifiedCenter - xOff);
break;
switch (verAlign) {
case vAlignment.top:
int justifiedTop = sh - vsize;
vloc = (justifiedTop - (yOff));
break;
case vAlignment.bottom:
vloc = yOff;
break;
case vAlignment.middle:
float justifiedMiddle = (sh * 0.5f) - (vsize * 0.5f);
vloc = (int)(justifiedMiddle - yOff);
break;
GetComponent<Camera>().pixelRect = new Rect(hloc,vloc,hsize,vsize);
```

Setelah menyimpan script C# tersebut, drag script tersebut menuju Camera yang ada pada Hierarchy.

7

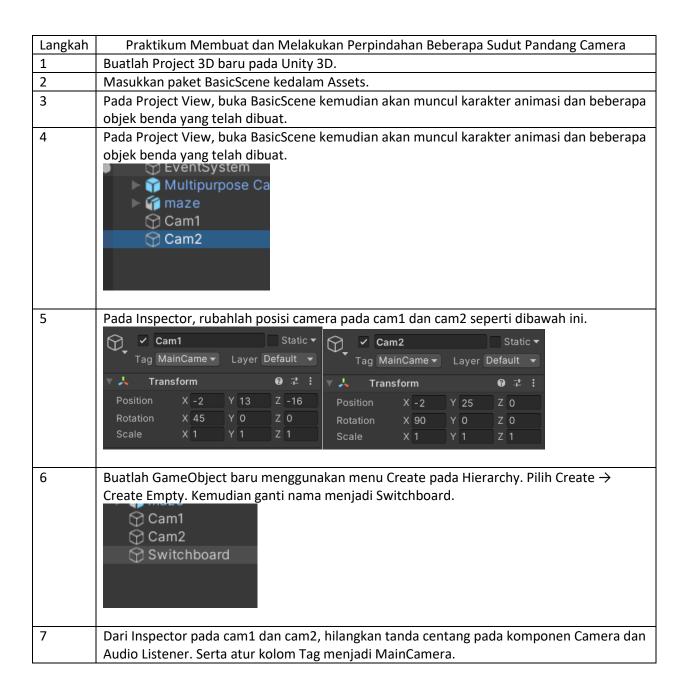


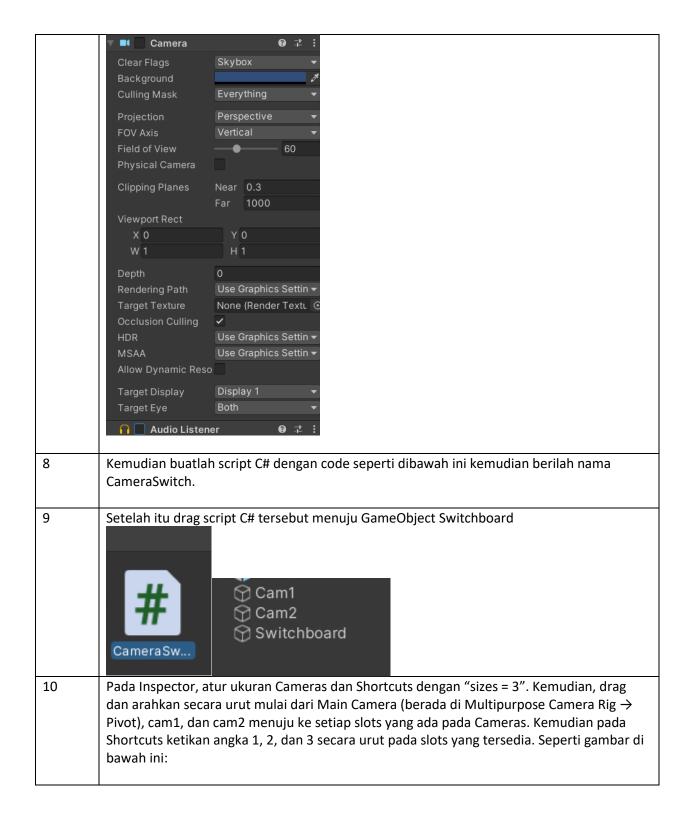
8 Pilih Camera lalu pada Inspector hilangkan centang pada komponen Audio Listener dan rubah beberapa parameter yang ada pada Script PictureInPicture seperti gambar dibawah ini:

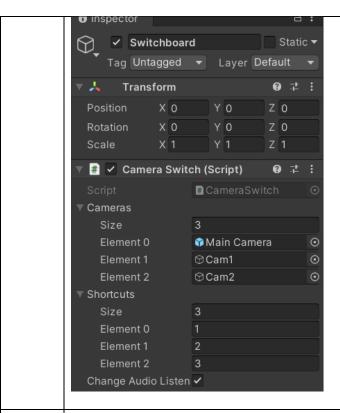


9 Silahkan jalankan program, maka pada layar tampilan akan muncul camera dari arah sudut pandang berbeda yang terletak pada kanan atas layar.

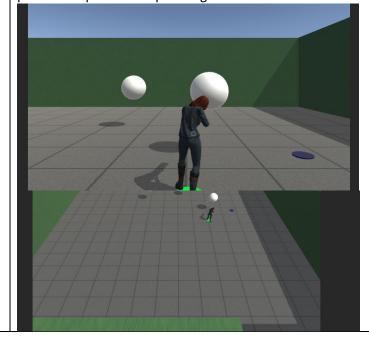


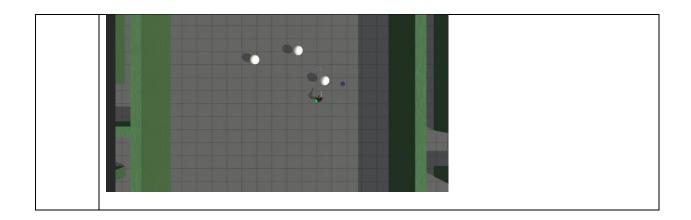


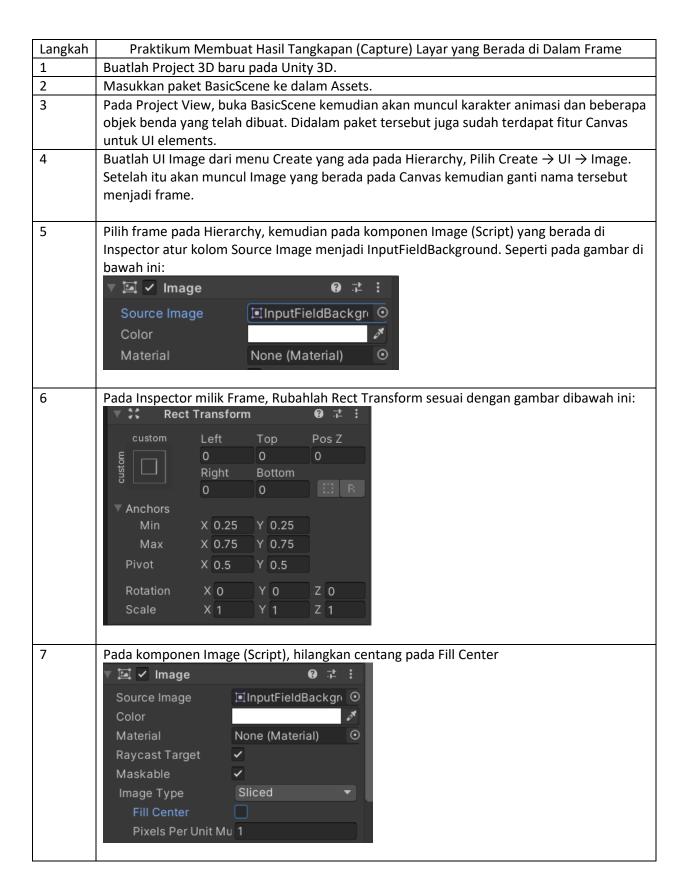


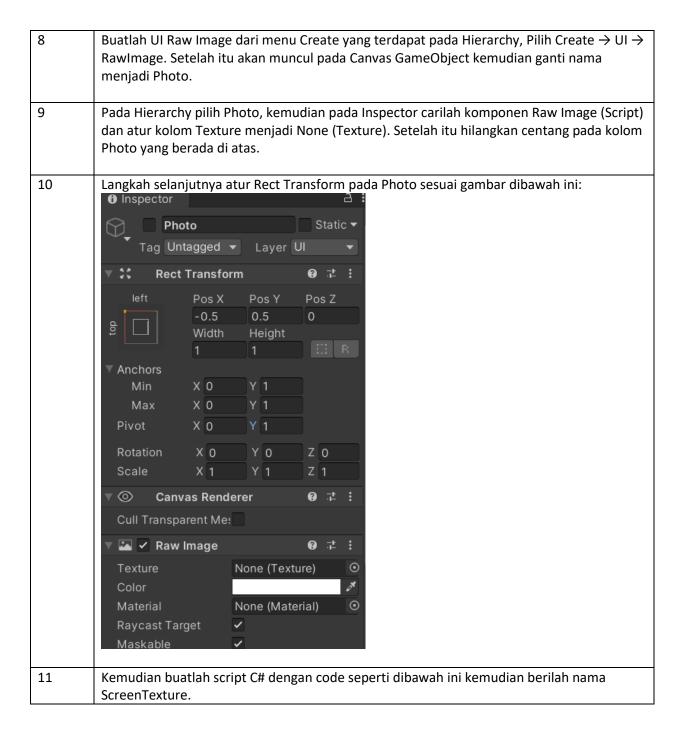


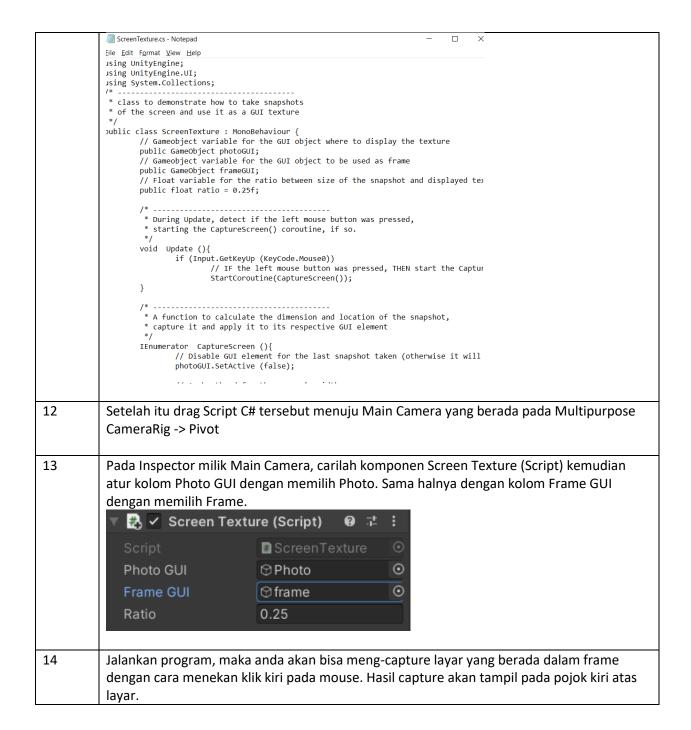
Jalankan program dan coba tekan angka 1, 2, dan 3 pada keyboard, maka akan terjadi perubahan pada sudut pandang camera utama.













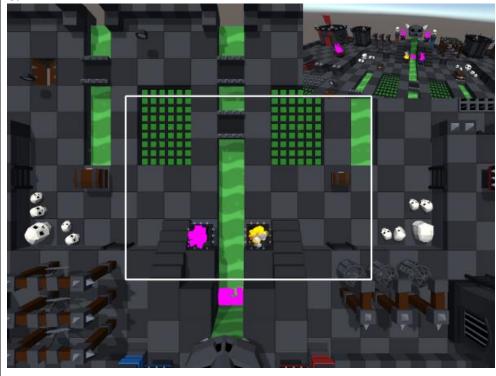
Langkah Tugas

1 Buatlah sebuah project 3D yang didalamnya terdapat 3 Fitur Using Cameras pada modul diatas beserta laporan tugas praktikumnya.

Cam-1



Cam-2





# Link github:

https://github.com/noviannurrohman/KomputasiMultimedia-UnityProject6