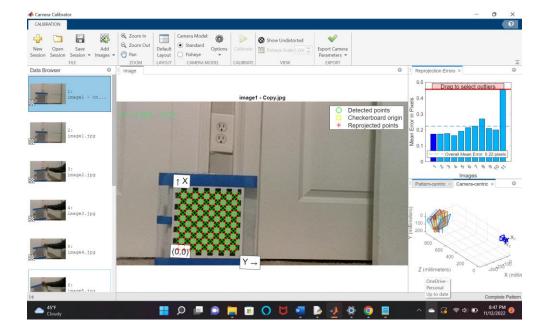
CV ASSIGNMENT

```
1)
#!/usr/bin/env python3
import cv2
import depthai as dai
import time
from depthai_sdk.fps import FPSHandler
# Creating pipeline
pipeline = dai.Pipeline()
# Define source and output
camRgb = pipeline.create(dai.node.ColorCamera)
xoutVideo = pipeline.create(dai.node.XLinkOut)
xoutVideo.setStreamName("video")
camRgb.setBoardSocket(dai.CameraBoardSocket.RGB)\\
camRgb.setResolution(dai.ColorCameraProperties.SensorResolution.THE_1080_P
)
camRgb.setVideoSize(1280,720)
xoutVideo.input.setBlocking(False)
```

```
xoutVideo.input.setQueueSize(1)
# Linking
camRgb.video.link(xoutVideo.input)
# Connecting to device and start pipeline
start_time = time.time()
x = 1
counter = 0
count=0
with dai.Device(pipeline) as device:
  video = device.getOutputQueue(name="video", maxSize=1, blocking=False)
  while True:
     videoIn = video.get()
    Frame=videoIn.getCvFrame()
    counter+=1
    font = cv2.FONT_HERSHEY_SIMPLEX
    if (time.time() - start_time) >= 1:
         fps=counter
         counter = 0
         start_time = time.time()
    cv2.putText(Frame, str(fps)+' '+str(camRgb.getVideoSize()), (7, 70), font, 1,
(100, 255, 0), 1, cv2.LINE_AA)
    cv2.imshow("video", Frame)
    if cv2.waitKey(1)==ord('p'):
```

```
count+=1
cv2.imwrite('image'+str(count)+'.jpg',Frame)
if cv2.waitKey(1) == ord('q'):
    break
```



2)

fx, fy and z values are

