Lab3 Report

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Read the input video:

○ Open the input video.

```
cap = cv2.VideoCapture('park.avi')
```

○ Obtain the properties of the video, such as the frame size, the number of frames, etc.

```
fps = cap.get(5)    w = cap.get(3)    l = cap.get(4)
```

○ Obtain the index of the frame (0-based index).

○ Obtain the data of each frame.

```
cap.set(cv2.CAP_PROP_POS_FRAMES, index)
ret1, img1 = cap.read()
```

Write the output video:

○ Create the output video.

```
out = cv2.VideoWriter('new.avi',fourcc, 30, (320,240),0)
```

○ Save processed frames into the output video.

```
out.write(newimg)
```

Thresholding :

○ Much of your code from Assignment 1 is reusable here

```
img = cv2.subtract(imgGL1, imgGL2)
ret, thresh = cv2.threshold(img, 25, 255, cv2.THRESH_BINARY)
```

○ The threshold value from Assignment 1 is used here.

Best value: around 25

Screenshots from the output video