## Writing a Video Using OpenCV

```
In [1]: #Import Libraries
import cv2
import matplotlib.pyplot as plt
%matplotlib inline

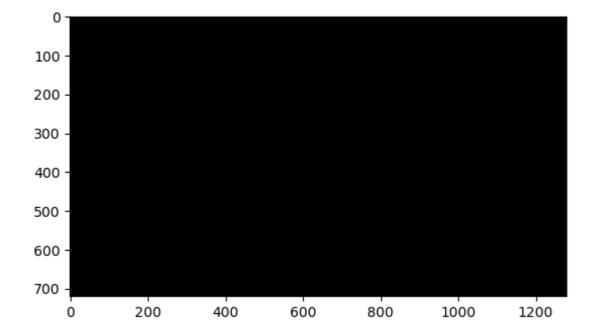
In [2]: ##Read a Video from Source
src = "RealRace.mp4" #Source = 0 for Webcam

cap = cv2.VideoCapture(src)

if cap.isOpened() == False:
    print("Error Opening Video Stream of File")

#Read and DispLay One Frame
ret, frame = cap.read()
plt.imshow(frame[..., ::-1])
```

Out[2]: <matplotlib.image.AxesImage at 0x1f1d53da100>



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For Writing The Video, We need to Create a Video Writer Object with Right Parameters

```
In [4]: ▶ #Function Syntax --> VideoWriter object = cv.VideoWriter(filename, fourcc, fps, framesize)
```

This Function 4 Required Parameters

Read Frames and Write to File

```
In [7]: ##Read Untill Video is Completed
while(cap.isOpened()):
    ret, frame = cap.read() #Capture Frame by Frame

if ret == True:
    #Write The Frames to the Output Files
    Out_AVI.write(frame)
    Out_MP4.write(frame)

else:
    break

cap.release()
Out_AVI.release()
Out_MP4.release()
```