Creating a Filter, Edge Detection

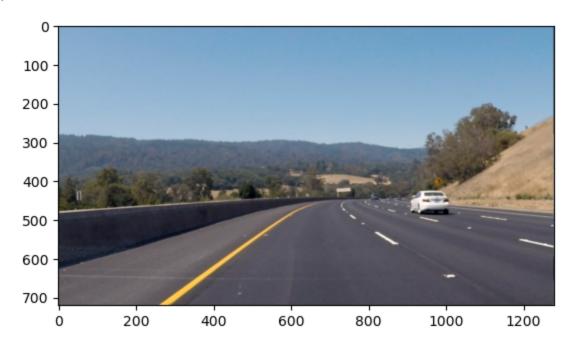
```
In [6]: # Import resources and display image
import matplotlib.pyplot as plt
import cv2
import numpy as np

%matplotlib inline

# Read in the image
image = mpimg.imread('D:/Udacity/Jupyter/curved_lane.jpg')

plt.imshow(image)
```

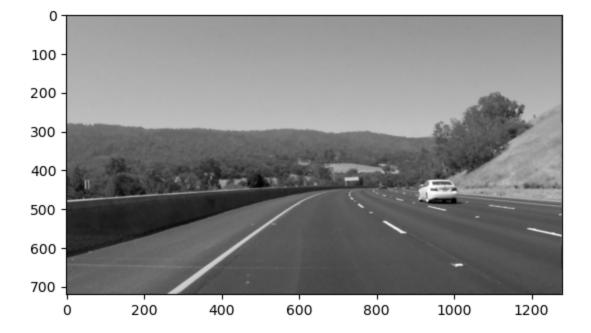
Out[6]: <matplotlib.image.AxesImage at 0x1f90c225850>



Converting the image to grayscale

```
In [7]: # Converting to grayscale for filtering
   gray = cv2.cvtColor(image, cv2.COLOR_RGB2GRAY)
   plt.imshow(gray, cmap='gray')
```

Out[7]: <matplotlib.image.AxesImage at 0x1f90be54210>



Out[5]: <matplotlib.image.AxesImage at 0x1f90c17a150>

