Task1: Finding lane

Task Description: Make a pipeline that finds lane lines on the road. Apply OpenCV functions to detect lanes in an image and later a video by following a pipeline.

Test video, image and code: GitHub Link

Project Expectations:

i. Rubric

Criteria	Meets Specification
In report explanation, using single image to explain the steps.	Report with input image screenshot with step wise variation(s).
Presents road images from a video as input and returns an annotated video stream as output.	Output video is an annotated version of the input video

ii. Code
You may use the following: Google Colab
Jupyter Notebook

iii. Writeup: Methodology of your work
Acceptable similarity percentage < 16% (Turnitin)

iv. Submission: Via LMS (provide GitHub link also)
Deadline- Feb 20th, 2023

v. GitHub: Uploading of Project in GitHub including video

Steps to find lane lines:

i. Colour selection
   a. Gray scale
   b. Noise
   c. Filtering
   d. Smoothing
ii. Region masking
iii. Canny edge detection
iv. Hough transform

References:

1. Udacity free course Intro to Computer Vision
2. https://opencv.org/opencv-free-course/
3. https://matplotlib.org/