**Project code:**

from tkinter import messagebox

from tkinter import \*

from tkinter import simpledialog

import tkinter

from tkinter import filedialog

from tkinter.filedialog import askopenfilename

from traffic\_simulation import \*

from yolo\_traffic import \*

main = tkinter.Tk()

main.title("Smart Control of Traffic Light Using Artificial Intelligence")

main.geometry("1300x1200")

global filename

def yoloTrafficDetection():

global filename

filename = filedialog.askopenfilename(initialdir="Videos")

pathlabel.config(text=filename)

text.delete('1.0', END)

text.insert(END,filename+" loaded\n");

runYolo(filename)

def runSimulation():

sim = Simulation()

sim.runSimulation()

def exit():

main.destroy()

font = ('times', 16, 'bold')

title = Label(main, text='Smart Control of Traffic Light Using Artificial Intelligence')

title.config(bg='light cyan', fg='pale violet red')

title.config(font=font)

title.config(height=3, width=120)

title.place(x=0,y=5)

font1 = ('times', 14, 'bold')

simulationButton = Button(main, text="Run Traffic Simulation", command=runSimulation)

simulationButton.place(x=50,y=100)

simulationButton.config(font=font1)

pathlabel = Label(main)

pathlabel.config(bg='light cyan', fg='pale violet red')

pathlabel.config(font=font1)

pathlabel.place(x=460,y=100)

yoloButton = Button(main, text="Run Yolo Traffic Detection & Counting", command=yoloTrafficDetection)

yoloButton.place(x=50,y=150)

yoloButton.config(font=font1)

exitButton = Button(main, text="Exit", command=exit)

exitButton.place(x=460,y=150)

exitButton.config(font=font1)

font1 = ('times', 12, 'bold')

text=Text(main,height=20,width=150)

scroll=Scrollbar(text)

text.configure(yscrollcommand=scroll.set)

text.place(x=10,y=250)

text.config(font=font1)

main.config(bg='snow3')

main.mainloop()