**Assignment -3**

Python Programming

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**Question-1:**

Write python code for blinking LED and Traffic Lights for Raspberry pi .only python code is enough ,no need to execute in raspberry pi.

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| **Solution:** |

#raffic light for raspberry pi simlulating in pycham with GUI

import turtle

import time

wn= turtle.getscreen()

wn.title("Stoplight By Gogulkrish")

wn.bgcolor("black")

#gui interfrace

pen= turtle.Turtle()

pen.color("Yellow")

pen.width(4)

pen.hideturtle()

pen.penup()

pen.goto(-30, 60)

pen.pendown()

pen.fd(60)

pen.rt(90)

pen.fd(120)

pen.rt(90)

pen.fd(60)

pen.rt(90)

pen.fd(120)

#red light

red\_light =turtle.Turtle()

red\_light.shape("circle")

red\_light.color("grey")

red\_light.penup()

red\_light.goto(0, 40)

#Yellow light

yellow\_light =turtle.Turtle()

yellow\_light.shape("circle")

yellow\_light.color("grey")

yellow\_light.penup()

yellow\_light.goto(0, 0)

#Green light

green\_light =turtle.Turtle()

green\_light.shape("circle")

green\_light.color("grey")

green\_light.penup()

green\_light.goto(0, -40)

while True:

yellow\_light.color("grey")

red\_light.color("red")

print("Red light Blinked - Now vehicle Stop behind zebra cross..")

print("Blink!!")

time.sleep(2)

print("Blink!!")

red\_light.color("grey")

green\_light.color("green")

print("Green light on- Now vehicle can go..")

print("Blink!!")

time.sleep(3)

print("Blink!!")

green\_light.color("grey")

yellow\_light.color("yellow")

print("Yellow light Blinked- Now vehicle Ready to go..")

print("Blink!!")

time.sleep(1)

print("Blink!!")

wn.mainloop()

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**Picture:**

