

Assignment -3
Python Programming

Assignment Date	11 October 2022
Student Name	S.Dhanushavarthini
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Maximum Marks	2 Marks

Question-1:

Write python code for blinking LED and Traffic lights for Raspberry Pi.

(Only code is enough)

Solution:

#traffic light for raspberry pi simulating in pycharm 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)

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#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!!")
```