

Assignment -3

Assignment Date	07 October 2022
Student Name	Mr. S.Sathishkumar
Student Roll Number	621319106083
Maximum Marks	2 Marks

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.

Solution:

```
import turtle
import time
wn= turtle.getscreen()
wn.title("By SathishKumar")
wn.bgcolor("black")
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
red_light =turtle.Turtle()
red_light.shape("circle")
red_light.color("grey")
red_light.penup()
red_light.goto(0, 40)
#Yellow
yellow_light =turtle.Turtle()
yellow_light.shape("circle")
yellow_light.color("grey")
yellow_light.penup()
yellow_light.goto(0, 0)
#Green
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 Blinkd - 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 Blinkd- Now vehicle Ready to go.. !!")
    print("Blink!!")
    time.sleep(1)
    print("Blink!!")
wn.mainloop()

```

