## **ASSIGNMENT**

## Blinking LED and Traffic lights for Raspberry pi

DATE	06 - 10 -2022
TEAM ID	PNT2022MID49676
PROJECT NAME	Gas Leakage Monitoring & Alerting System for
	Industries

Write python code for blinking LED and Traffic lights for Raspberry pi. Only python code is enough, no need to execute on raspberry pi.

**Note:** you are allowed to use web search and complete the assignment.

## **Program:**

```
import turtle
import time
wn=
        turtle.getscreen()
wn.title("Traffic Light")
wn.bgcolor("white")
pen= turtle.Turtle()
pen.color("black")
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 =turtle.Turtle()
red_light.shape("circle")
red_light.color("grey") red_light.penup()
red_light.goto(0, 40)
yellow_light =turtle.Turtle()
yellow_light.shape("circle")
yellow_light.color("grey")
yellow_light.penup()
yellow_light.goto(0, 0)
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()

## **OUTPUT:**







