BATCH NO   : B6-6M2E

TOPIC   : IOT BASED SAFETY GADGET FOR CHILD SAFETY MONITORING AND NOTIFICATION

ASSIGNMENT 3   :Write python code for blinking LED and Traffic lights for Raspberry pi.Only python code is enough, no need to execute in raspberry pi.

CODE:

```python
import turtle
import time
light= turtle.getscreen()
light.title("Traffic light")
light.bgcolor("White")

#gui interfrace
ted= turtle.Turtle()
ted.color("Black")
```

```python
ted.width(4)
ted.hideturtle()
ted.penup()
ted.goto(-30, 60)
ted.pendown()
ted.fd(60)
ted.rt (90)
ted.fd(120)
ted.rt(90)
ted.fd(60)
ted.rt(90)
ted.fd(120)

#red light
red_light = turtle. Turtle()
red_light.shape("circle")
red_light.color("Black")
red_light.penup()
```

```python
red_light.goto(0, 40)

#Yellow light
yellow_light=turtle. Turtle()
yellow_light.shape("circle")
yellow_light.color("Black")
yellow_light.penup()
yellow_light.goto(0, 0)

#Green light
green_light=turtle. Turtle()
green_light.shape("circle")
green_light.color("Black")
green_light.penup()
green_light.goto(0, -40)

while True:
```

```
        yellow_light.color("grey")
        red_light.color("red")
        print("Red light blinks-Now
vehicle should stop")
        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 Blinks-
```

```
Now vehicle should wait")
    print("Blink!!!!!")
    time.sleep(1)
    print("Blink!!!!!")
    light.mainloop()
```