# UNIVERSITY COLLEGE OF ENGINEERING, PATTUKKOTTAI-614701

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### IOT ASSIGNMENT-3

**PROJECT TITLE:** SmartFarmer - IoT Enabled Smart Farming Application

NAME: ABARNA.V.G

Topic : Write python code for blinking LED and Traffic lights

# TEAM ID : PNT2022TMID46961

## Python code:

```python
#traffic 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)
```

```python
#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()
```

OUTPUT WITH GUI INTERFACE

Red light Blinked - Now vehicle Stop behind zebra cross..
Blink!!
Blink!!
Green light on- Now vehicle can go..
Blink!!
Blink!!
Yellow light Blinked- Now vehicle Ready to go..
Blink!!



Stoplight By SELCIA