

## ASSIGNMENT-3

ASSESSMENT DATE	26 SEPTEMBER 2022
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MARKS	2 Marks

### PROBLEM:

Build a python code, Assume you get temperature and humidity values (generated with random function to a variable) and write a condition to continuously detect alarm in case of high temperature.

### CODE

```
#traffic light for raspberry pi
simulating 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)

#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()