

Assignment -3

Assignment Date	08 October 2022
Student Name	SARAVANASUDHAN.S
Student Roll Number	621319106082
Maximum Marks	2 Marks

Question-1:

Write a python code for blinking LED and Traffic lights for Raspberry Pi.

Solution:

```
#traffic light for raspberry pi simululating 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)
```

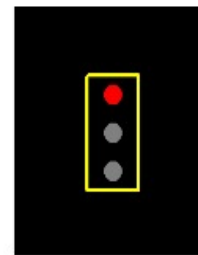
```
while True:
    yellow_light.color("grey")
    red_light.color("red")
    print("Red light Blinked - Now vehicle Stop behind zebra cross..")
    print("Blink!!")
    time.sleep(2)
    print("Blink!!")
```

```
red_light.color("grey")
green_light.color("green")
print("Green light on- Now vehicle can go..")
print("Blink!!")
time.sleep(3)
print("Blink!!")
```

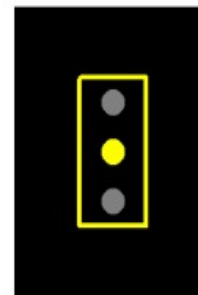
```
green_light.color("grey")
yellow_light.color("yellow")
print("Yellow light Blinked- Now vehicle Ready to go..")
print("Blink!!")
time.sleep(1)
print("Blink!!")
```

```
wn.mainloop()
```

```
C:\WINDOWS\Spy.exe
Red light Blinked - Now vehicle Stop behind zebra cross..
Blink!!
```



```
C:\WINDOWS\Spy.exe
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!!
```



```
Green light on- Now vehicle can go..
Blink!!
```

