

### ASSIGNMENT 3

#### Blinking LED & Traffic Lights

Assignment Date	16 November 2022
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Maximum Marks	2 Marks

**Question:**

Write python code for blinking LED and traffic lights for Raspberry Pi.

**Code:**

```
Import turtle
import time
wn= turtle.getscreen()
wn.title("Stoplight By Asma")
wn.bgcolor("white")

#gui interface
```

```
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 Blinkd- Now vehicleStop 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()
```