

Assignment -3

Assignment Date	04 October 2022
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Question:

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:

```
import turtle

import time

wn= turtle.getscreen()

#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()
```