

Assignment -3
Python Programming

Assignment Date	11 October 2022
Student Name	V.Hamsavarthini
Student Roll Number	19043
Maximum Marks	2 Marks

Question-1:

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

(Only code is enough)

Solution:

#traffic light for raspberry pi simulating in pycharm 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!!")
```