

ASSIGNMENT : 3

- **Question 1:**

- Write a python code for Blinking LED and Traffic lights for Raspberry Pi



LED Blinking

```
import RPi.GPIO as GPIO
import time
ledPin=22
def setup():
    GPIO.setmode(GPIO.BOARD)
    GPIO.setup(ledPin,GPIO.OUT)
    GPIO.output(ledPin,GPIO.LOW)
def loop():
    While True:
        Print 'LED on'
```



```
GPIO.output(ledPin,GPIO.HIGH)
```

```
Time.sleep(1.0)
```

```
Print 'LED off'
```

```
GPIO.output(ledPin,GPIO.LOW) Time.sleep(1.0)
```

```
def endprogram():
```

```
    GPIO.output(ledPin,GPIO.LOW) GPIO.cleanup()
```

```
if __name__ == '__main__':
```

```
    setup()
```

```
try:
```

```
    loop()
```

```
except KeyboardInterrupt:
```

```
    endprogram()
```

TRAFFIC LIGHT python code:-

```
from gpiozero import LED
```

```
from time import sleep
```

```
red=LED(17)
```

```
yellow=LED(22) green=LED(27) While True:
```

```
red.on()
```

```
sleep(15)
```

```
red.off()
```



sleep(1)

yellow.on()

sleep(10)

yellow.off()

sleep(1)

green.on()

sleep(10)

green.off()

sleep(1)