# ASSIGNMENT-3 Python Programming

Assignment Date	02 October 2022
Student Name	Mark Gerald
Student Roll Number	311119106028
Maximum Marks	2

## **Question**:

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

### **Blinking LED:**

## **Traffic Lights:**

```
# Setup
GPIO.setmode(GPIO.BCM)
GPIO.setup(9, GPIO.OUT)
GPIO.setup(10, GPIO.OUT)
GPIO.setup(11, GPIO.OUT)
```

#### # Turn off all lights when user ends demo

```
def allLightsOff(signal, frame):
GPIO.output(9, False)
GPIO.output(10, False)
GPIO.output(11, False)
GPIO.cleanup()
sys.exit(0)
signal.signal(signal.SIGINT, allLightsOff)
```

```
# Loop forever
while True:
  # Red
  GPIO.output(9, True)
  time.sleep(3)
  # Red and amber
  GPIO.output(10, True)
  time.sleep(1)
  # Green
  GPIO.output(9, False)
  GPIO.output(10, False)
  GPIO.output(11, True)
  time.sleep(5)
  # Amber
  GPIO.output(11, False)
  GPIO.output(10, True)
  time.sleep(2)
  # Amber off (red comes on at top of loop)
  GPIO.output(10, False)
```