# ASSIGNMENT 3

BY: Josephin Florence Y

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

#Blinking LED

```
import RIP.GPIO as GPIO import  time

redLED = 4

GPIO.setmode(GPIO.BCM)

while True:
    GPIO.setup(redLED,GPIO.OUT)
    GPIO.output(redLED,True)
    Time.sleep(0.5)
    GPIO.output(redLED,False)
    Time.sleep(0.5)
GPIO.cleanup()
```

#Traffic Light

```
import RIP.GPIO as GPIO
import time import signal
import sys
#setup
GPIO.setmode(GPIO.BCM)
GPIO.setup(9,GPIO.OUT)
GPIO.setup(10,GPIO.OUT)
```

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```
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(1)
        # Amber off (red comes on at top of loop)
        GPIO.output(10, False)
```