## Assignment - 3

Write python code for blinking LED and Traffic lights for Raspberry pi. Only python code is enough, no need to execute in raspberry pi. Note: you are allowed to use web search and complete the assignment.

```
#led blink program
import RPi.GPIO as GPIO
from time import sleep
GPIO.setwarnings(False)
GPIO.setmode(GPIO.BOARD)
GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW)
while True:
  GPIO.output(8, GPIO.HIGH)
  sleep(1) # Sleep for 1 second
  GPIO.output(8, GPIO.LOW)
  sleep(1) # Sleep for 1 second
#traffic light program
import RPi.GPIO as GPIO
from time import sleep
GPIO.setwarnings(False)
GPIO.setmode(GPIO.BOARD)
GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW)
GPIO.setup(10, GPIO.OUT, initial=GPIO.LOW)
GPIO.setup(12, GPIO.OUT, initial=GPIO.LOW)
while True:
  #turn red light
  GPIO.output(8, GPIO.HIGH)
  sleep(2)
  GPIO.output(8, GPIO.LOW)
  sleep(2)
  #turn yellow light
  GPIO.output(10, GPIO.HIGH)
```

sleep(2) GPIO.output(10, GPIO.LOW) sleep(2)

#turn green light

GPIO.output(12, GPIO.HIGH) sleep(2) GPIO.output(12, GPIO.LOW) sleep(2)