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ASSIGNMENT – 3

QUESTION:

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.

SOLUTION:

PROGRAM:

CODE FOR BLINKING LED :

```
import RPi.GPIO as GPIO
from time import sleep
GPIO.setmode (GPIO.BOARD)
GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW)
while True:
    GPIO.output (8, GPIO.HIGH)
    sleep(1)
    GPIO.output (8, GPIO.LOW)
    sleep(1)
```

CODE FOR TRAFFIC LIGHTS:

```
import RPi.GPIO as GPIO
import time
GPIO.setwarnings(False)
green=11
yellow=10
red=9
GPIO.setmode(GPIO.BCM)
```

```
GPIO.setup(red, GPIO.OUT)
GPIO.setup(green, GPIO.OUT)
GPIO.setup(yellow, GPIO.OUT)
GPIO.output (green, False)
GPIO.output (yellow, False)
GPIO.output (red, False)
GPIO.output(green, True)
time.sleep(3)
GPIO.output (green, False)
GPIO.output(yellow, True)
time.sleep(3)
GPIO.output (yellow, False)
GPIO.output(red, True)
time.sleep(10)
```