ASSIGNMENT – 3

PYTHON PROGRAMMING WITH RASPBERRY PI

Assignment Date	30 September 2022
Student Name	K SATHISHKUMAR
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Maximum Marks	2 Marks

Question:

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

Code:

Blinking LED:

import RPi.GPIO as GPIO

from time import sleep

GPIO.setwarnings(False)

GPIO.setmode(GPIO.BOARD)

GPIO.setup(7, GPIO.OUT, initial = GPIO.LOW)

while True:

GPIO.output(7, GPIO.HIGH)

sleep(3)

GPIO.output(7, GPIO.LOW)

sleep(3)

Traffic Lights:

import RPI.GPIO as gpio

from time import sleep

```
RED PIN = 25
YELLOW_PIN =8
GREEN_PIN =7
gpio.setwarnings(FALSE)
gpio.setmode(gpio.BOARD)
def set_red_light():
    gpio.output(RED_PIN, gpio.HIGH)
    gpio.output(YELLOW_PIN, gpio.LOW)
    gpio.output(GREEN_PIN, gpio.LOW)
def set_yellow_light():
    gpio.output(RED_PIN, gpio.LOW)
    gpio.output(YELLOW_PIN, gpio.HIGH)
    gpio.output(GREEN_PIN, gpio.LOW)
def set_green_light():
    gpio.output(RED_PIN, gpio.LOW)
    gpio.output(YELLOW_PIN, gpio.LOW)
    gpio.output(GREEN_PIN, gpio.HIGH)
def trafficSignl():
  while True:
    set_red_light()
    sleep(10)
    set_yellow_light()
    sleep(2)
    set_green_light()
    sleep(5)
```