ASSIGNMENT-3 PYTHON CODE FOR RASPBERRY Pi

Assignment Date	06 October 2022
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Maximum Marks	2 Marks

QUESTION:

Build a python code for blinking of LEDs and Traffic lights for Raspberry Pi.

SOLUTION:

BLINKING OF LEDs:

```
#BLINKING OF LED
import RPi.GPIO as GPIO
import time

LED_PIN = 17

GPIO.setmode(GPIO.BCM)

GPIO.setup(LED_PIN, GPIO.OUT)

while True:

GPIO.output(LED_PIN, GPIO.HIGH)
```

GPIO.cleanup()

time.sleep(1)

time.sleep(1)

GPIO.output(LED_PIN, GPIO.LOW)

TRAFFIC LIGHTS: **#TRAFFIC LIGHTS** import RPi.GPIO as GPIO import time GPIO.setmode(GPIO.BOARD) Red=7 Yellow=11 Green=13 GPIO.setup(Red, GPIO.OUT) GPIO.setup(Yellow, GPIO.OUT) GPIO.setup(Green, GPIO.OUT) while True: GPIO.output(Red, True) time.sleep(3) GPIO.output(Red, False) GPIO.output(Yellow, True) time.sleep(1) GPIO.output(Yellow, False) GPIO.output(Green, True) time.sleep(3) GPIO.output(Green, False)

GPIO.cleanup()