ASSIGNMENT-3

Date	9th October 2022
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Marks	2 Marks

QUESTION: WRITE A PYTHON CODE FOR BLINKING LED AND TRAFFIC LIGHT FOR RASPBERRY PI.

CODE:

#Python program for blinking LED on Raspberry Pi

```
import time
import RPi.GPIO as GPIO

led_pin = 5 #Pin definition

GPIO.setmode(GPIO.BCM)
GPIO.setup(led_pin,GPIO.OUT)

GPIO.output(led_pin,GPIO.HIGH)
time.sleep(1)
GPIO.output(led_pin,GPIO.LOW)
time.sleep(1)
GPIO.output(led_pin,GPIO.HIGH)
```

#Python program for traffic light on Raspberry Pi

```
from gpiozero import Button, TrafficLights, Buzzer
from time import sleep

buzzer = Buzzer(15)
button = Button(21)
lights = TrafficLights(25, 8, 7)

while True:
button.wait_for_press()
buzzer.on()
light.green.on()
sleep(1)
lights.amber.on()
sleep(1)
lights.red.on()
sleep(1)
lights.off()

buzzer.off()
```