

ASSIGNMENT 3 - PYTHON PROGRAMMING TO RABPERRY PI

NAME:SETHU VIGNESH

DATE:03.10.2022

QUESTION:

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

CODE:

```
import time
import RPi.GPIO as GPIO
GPIO.setmode(GPIO.BOARD)
GPIO.setup(12, GPIO.OUT)

while True:
    GPIO.output(12,True)
    time.sleep(1)
    GPIO.output(12,False)
    time.sleep(1)
from gpiozero import Button, TrafficLights, Buzzer
buzzer = Buzzer(15)
button = Button(21)
lights = TrafficLights(25, 8, 7)

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

