ASSIGNMENT-3

Python Programming for Raspberry pi

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| Assignment Date | 8th October 2022 |
| Student Name | Haren Prabu M |
| Student Roll Number | 737819ITL110 |
| Maximum Marks | 2Marks |

1.Write a python code for blinking LED using Raspberry pi.

Coding:

import RPi.GPIO as GPIO

from time import sleep

GPIO.setwarnings(False)

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.IOW)

sleep(1)

2.Write a python code for Traffic Lights using Raspberry pi.

Coding:

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()