Assignment -3

Python Programming

| Assignment Date | 06 October 2022 |
|---------------------|-----------------|
| Student Name | S.SELVA KUMAR |
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| Maximum Marks | 2 Marks |

Question-1:

Write a python code for led blinking in raspberry pi

SOLUTION:

import RPi.GPIO as GPIO # Import Raspberry Pi GPIO library

from time import sleep # Import the sleep function from the time module

GPIO.setwarnings(False) # Ignore warning for now

GPIO.setmode(GPIO.BOARD) # Use physical pin numbering

GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW) # Set pin 8 to be an output pin and set initial value to low (off)

while True: # Run forever

GPIO.output(8, GPIO.HIGH) # Turn on sleep(1)

Sleep for 1 second GPIO.output(8, GPIO.LOW)

Turn off sleep(1) # Sleep for 1 second

```
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Import RPI.GFIO as GFIO # Import Raspberry Pi GFIO library

from time import sleep # Import the sleep function from the time module

GFIO.setwarnings(False) # Ignore warning for now

GFIO.setwarnings(False) # Ignore warning for now

GFIO.setwo(%, GFIO.OUT, initial=GFIO.LOW) # Set pin % to be an output pin and set initial value to low (off)

while True: # Run forever

GFIO.output(%, GFIO.HIGH) # Turn on

sleep(1) # Sleep for 1 second

GFIO.output(%, GFIO.LOW) # Turn off

sleep(1) # Sleep for 1 second
```

Question-2:

Write a python code for traffic light in raspberry pi

```
SOLUTION: 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(
```

light.green.on()

) buzzer.on()

```
sleep(1)
lights.amber.on()
sleep(1)
lights.red.on()
sleep(1) lights.off()
buzzer.off()
```