| Assignment Date | 15 October 2022 |
| --- | --- |
| Student Name | Nasrin Fathima. M |
| Student Register Number | 950819106048 |

**Question-1: Write a python code for Blinking LED for Raspberry pi.**

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

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

**Question-2: Write a python code for Traffic lights for Raspberry pi**

from gpiozero import Buzzer, Button, TrafficLights

from time import sleep

button = Button (21)

buzzer = Buzzer (15)

lights = TrafficLights(25,8,7)

while True:

button.wait\_for\_press()

buzzer.on()

lights.green.on()

sleep(1)

lights.amber.on()

sleep(1)

lights.red.on()

sleep(1)

buzzer.off()

lights.off()