VSB ENGINEERING COLLEGE , KARUR
ELECTRONICS AND COMMUNICATION ENGINEERING
ASSIGNMENT - III

TITLE   : Industry Specific Intelligent Fire Management

                         System

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DOMAIN NAME : Internet Of Things

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Assignment Topic :

Write a python code for Blinking LED and Traffic Light for Raspberry Pi .

Required Materials :

- ❖ Raspberry pi
- ❖ Arduino uno
- ❖ LED
- ❖ Breadboard

Procedure :

- ❖ To install the Python library open a terminal and execute the following.

```
$ sudo apt-get install python-rpi.gpio python3-rpi.gpi
```

❖ The Following things that to be done here are

1. **Initialize the GPIO ports**

2. **Turn the LED on and off in 1 second intervals**

Python Code :

```python
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
```