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

sleep(1) # Sleep for 1 second

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

Python Code:

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