|  |  |
| --- | --- |
| Assignment Date | 3 October 2022 |
| Student Name | R RANJINI |
| Student Reg Number | 611419104063 |

**Question-1:**

Write python code for blinking LED and Traffic lights for Raspberry pi.

**Solution:**

**import RPi.GPIO as GPIO import time**

**import signal import sys**

**# Setup GPIO.setmode(GPIO.BCM) GPIO.setup(9, GPIO.OUT) GPIO.setup(10, GPIO.OUT) GPIO.setup(11, GPIO.OUT)**

**# Turn off all lights when user ends demo def allLightsOff(signal, frame):**

**GPIO.output(9, False) GPIO.output(10, False) GPIO.output(11, False) GPIO.cleanup() sys.exit(0)**

**signal.signal(signal.SIGINT, allLightsOff) # Loop forever**

**while True:**

**# Red GPIO.output(9, True) time.sleep(3)**

**# Red and amber GPIO.output(10, True) time.sleep(1)**

**# Green**

**GPIO.output(9, False) GPIO.output(10, False) GPIO.output(11, True) time.sleep(5)**

**# Amber GPIO.output(11, False) GPIO.output(10, True) time.sleep(2)**

**# Amber off (red comes on at top of loop) GPIO.output(10, False)**