**Assignment -3**

Python Programming

|  |  |
| --- | --- |
| Assignment Date | 1 October 2022 |
| Student Name | GOWTHAMKUMAR S |
| Student Roll Number | PNT2022TMID02412 |
| Maximum Marks | 2 Marks |

**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) |  |
|  |  |
|  |  |
|  |  |
|  |  |