IBM (NALAIYA THIRAN)

ASSIGNMENT NO : 3

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CODE:

Python code for Blinking Led using Raspberry pi

|  |  |
| --- | --- |
|  | import RPi.GPIO as GPIO |
|  | from time import sleep |
|  |  |
|  | GPIO.setwarnings(False) |
|  | GPIO.setmode(GPIO.BOARD) |
|  | GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW) |
|  |  |
|  | while True: |
|  | GPIO.output(8, GPIO.HIGH) |
|  | sleep(1) |
|  | GPIO.output(8, GPIO.LOW) |
|  | sleep(1) |

CODE:

Python code for traffic light using raspberry pi

|  |  |
| --- | --- |
|  | import RPi.GPIO as GPIO  import time |
|  | import signal |
|  | import sys |
|  | GPIO.setmode(GPIO.BCM) |
|  | GPIO.setup(9, GPIO.OUT) |
|  | GPIO.setup(10, GPIO.OUT) |
|  | GPIO.setup(11, GPIO.OUT) |
|  | 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) |
|  |  |
|  | while True: |
|  |  |
|  | GPIO.output(9, True) |
|  | time.sleep(3) |
|  |  |
|  | GPIO.output(10, True) |
|  | time.sleep(1) |
|  |  |
|  | GPIO.output(9, False) |
|  | GPIO.output(10, False) |
|  | GPIO.output(11, True) |
|  | time.sleep(5) |
|  |  |
|  | GPIO.output(11, False) |
|  | GPIO.output(10, True) |
|  | time.sleep(2) |
|  |  |
|  | GPIO.output(10, False) |