**Assignment -3**

Python Code for Blinking led & Traffic lights

|  |  |
| --- | --- |
| Assignment Date | 7 OCTOBER 2022 |
| Student Name | ANISH B |
| Student Roll Number | 513419106021 |
| Maximum Marks |  |

**Question-1:**

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

Solution

#BLINKING LED

import time

import RPi.GPIO as GPIO

GPIO.setmode(GPIO.BCM)

GPIO.setup(18, GPIO.OUT)

while True:

GPIO.output(18,True) # Turn on Led

time.sleep(1)

GPIO.output(18,False) # Turn off Led

time.sleep(1)

#TRAFFIC LIGHTS

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:

# 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)