**Assignment -3**

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| Assignment Date | 19 September 2022 |
| Student Name | Dhivanesh M.R |
| Student Roll Number | 111519106027 |
| Maximum Marks | 2 Marks |

**Question:**

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

**Solution:**

CODE:

RASPBERRY PI LED BLINK:

import RPi.GPIO as GPIO

import time

GPIO.setmode(GPIO.BCM)

GPIO.setwarnings(False)

GPIO.setup(18,GPIO.OUT)

print ("LED on")

GPIO.output(18,GPIO.HIGH)

time.sleep(1) print ("LED off")

GPIO.output(18,GPIO.LOW)

RASPBERRY PI FOR TRAFFIC LIGHT:

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)