**Assignment -1**

Python Programming

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| Assignment Date | 5 October 2022 |
| Student Name | Ajin R |
| Student Roll Number | 962319104009 |
| Maximum Marks | 2 Marks |

**Question-1:**

Create a led blinking code using python for Raspberry pi platform

**Program:**

import RPi.GPIO as GPIO

from time import sleep

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)

**Question-2:**

Create a Traffic light simulation code using python for Raspberry pi platform

**Program:**

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)

while True:

# red

GPIO.output(9, True)

time.sleep(3)

# yellow

GPIO.output(10, True)

time.sleep(2)

# green

GPIO.output(9, False)

GPIO.output(10, False)

GPIO.output(11, True)

time.sleep(5)

# yellow

GPIO.output(11, False)

GPIO.output(10, True)

time.sleep(2)

GPIO.output(10, False)