**Assignment -3**

Raspberry Pi-Python Programming

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| Assignment Date | 5 October 2022 |
| Student Name | Ms. JANANAE.M |
| Student Roll Number | 710019106017 |
| Maximum Marks | 2 Marks |

**QUESTION:**

Write python Code for blinking LED and traffic lights for Raspberry pi.

**CODE:**

//blinking LED

import RPi.GPIO as GPIO #import RPi.GPIO module

import time

LED = 40 #pin no. as per BOARD

GPIO.setwarnings(False) #disable warnings

GPIO.setmode(GPIO.BOARD) #set pin numbering format

GPIO.setup(LED, GPIO.OUT) #set GPIO as output

while True:

GPIO.output(LED,GPIO.HIGH)

time.sleep(1)

GPIO.output(LED,GPIO.LOW)

time.sleep(1)

//Traffic lights

import time  
import RPi.GPIO as GPIO  
GPIO.cleanup()

GPIO.setmode(GPIO.BOARD)  
GPIO.setup(11,GPIO.OUT)  
GPIO.setup(13,GPIO.OUT)  
GPIO.setup(15,GPIO.OUT)  
GPIO.setup(12,GPIO.IN)  
while True:  
GPIO.output(11,GPIO.HIGH)  
if (GPIO.input(12) == True):  
print(“pressed”)  
time.sleep(3)  
GPIO.output(13,GPIO.HIGH)  
time.sleep(3)  
GPIO.output(11,GPIO.LOW)  
GPIO.output(11,GPIO.LOW)  
GPIO.output(13,GPIO.LOW)

GPIO.output(15,GPIO.HIGH)  
time.sleep(3)  
GPIO.output(15,GPIO.LOW)  
GPIO.output(13,GPIO.HIGH)  
time.sleep(3)  
GPIO.output(13,GPIO.LOW)  
print(“End”)