**Assignment -3**

Python Programming

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| **Assignment Date** | **05 October 2022** |
| **Student Name** | **SANGEETHA S** |
| **Student Roll Number** | **811019106032** |
| **Maximum Marks** | **2 Marks** |

**Question-1 :**

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

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| **Solution :** |

//\*PYTHON CODE FOR BLINKING LED\*//

import RPi.GPIO as GPIO # Import Raspberry Pi GPIO library

from time import sleep # Import the sleep function from the time module

GPIO.setwarnings(False) # Ignore warning for now

GPIO.setmode(GPIO.BOARD) # Use physical pin numbering

GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW) # Set pin 8 to be an output pin and set initial value to low

(off)

while True: # Run forever

GPIO.output(8, GPIO.HIGH) # Turn on

sleep(1) # Sleep for 1 second

//\*PYTHON CODE FOR TRAFFIC LIGHT\*//

import time

import RPi.GPIO as GPIO

GPIO.setmode(GPIO.BOARD)

GPIO.setup(11, GPIO.OUT)

GPIO.setup(12, GPIO.OUT)

GPIO.setup(13, GPIO.OUT)

while True:

GPIO.output(11,True) ## Turn on redLed

time.sleep(1) ## Wait for one second

GPIO.output(11,False) ## Turn off redLed

time.sleep(1) ## Wait for one second

GPIO.output(12,True) ## Turn on yellowLed

time.sleep(1) ## Wait for one second

GPIO.output(12,False) ## Turn off yellowLed

time.sleep(1) ## Wait for one second

GPIO.output(13,True) ## Turn on greenLed

time.sleep(1) ## Wait for one second

GPIO.output(13,False) ## Turn off greenLed

time.sleep(1) ## Wait for one second