## **Assignment -3**

# **Python Programming**

Assignment Date	05 October 2022
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## Question-1:

Write python code for blinking LED and Traffic lights for Raspberry pi. Only python code is enough, no need to execute in raspberry pi.

**Note**: you are allowed to use web search and complete the assignment.

#### **SOLUTION:**

# (A) Blinking of 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

GPIO.output(8, GPIO.LOW) # Turn off

sleep(1) # Sleep for 1 second

# (B) Traffic Light

from gpiozero import LED
import time
red=LED(16)
yellow=LED(18)
green=LED(17)
red.on()
time.sleep(5)
red.off()
yellow.on()
time.sleep(3)
yellow.off()
green.on()
time.sleep(5)
green.off()