Assignment -3

Python Programming

Assignment Date	28 September 2022
Student Name	A.Chellamuthu
Student Roll Number	7179KCTKCTKCTKCTKCTKCT19BEC044
Maximum Marks	2 Marks

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.

python program to blink a Led for Raspberry pi

```
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
```

Python program for traffic light for Raspberry pi

```
from gpiozero import Buzzer
from gpiozero import Button
from gpiozero import LED from time
import sleep button = Button (21)

buzzer = Buzzer (15)

redled = LED(25)

yellowled = LED(8)

greenled = LED(7)
```

```python
while True: if button.is_pressed:

 redled.on()
buzzer.on()
sleep(2)
redled.off()
buzzer.off()
yellowled.on()
sleep(2)
yellowled.off()
greenled.on()
sleep(2)
greenled.off()
break
```