

ASSIGNMENT 3  
PYTHON PROGRAMMING

Assignment Date	30 SEPTEMBER 2022
Student Name	S.ROBINSON
Student Roll Number	962719106025
Maximum Marks	2 MARKS

QUESTION

Write Python Code for Blinking LED and Traffic Lights for Raspberry pi. Only Python Code is enough, no need to execute in raspberry pi .

Solution:

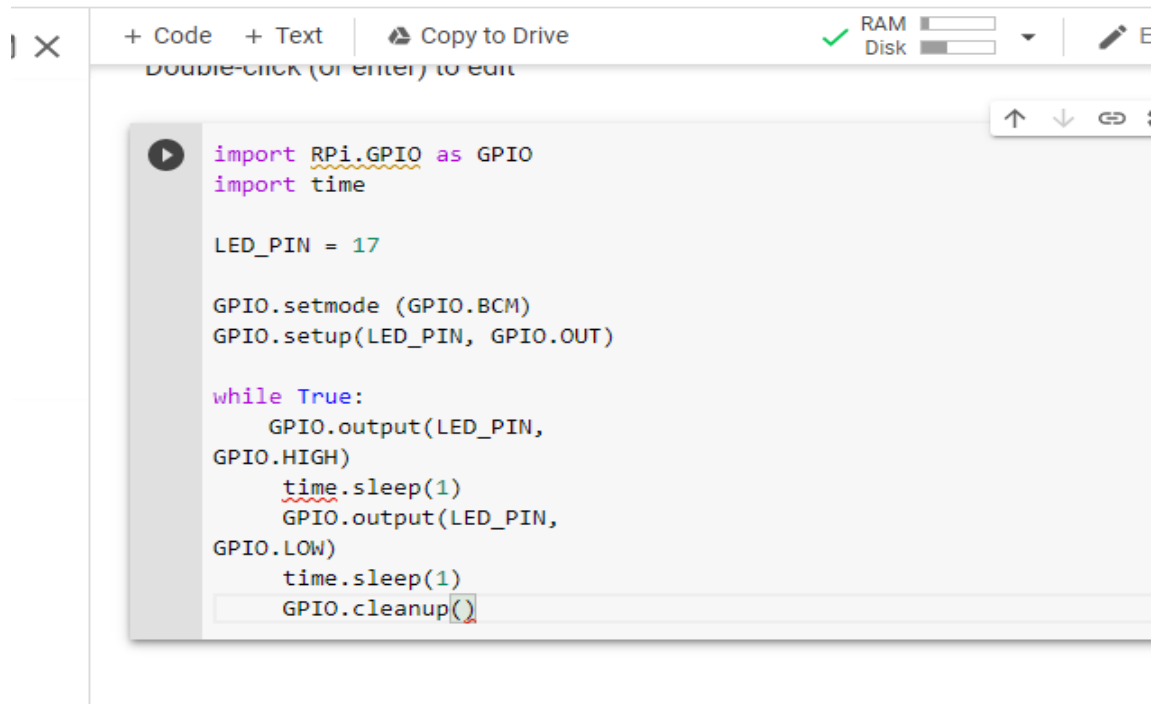
```
import RPi.GPIO as GPIO
import time

LED_PIN = 17

GPIO.setmode (GPIO.BCM)
GPIO.setup(LED_PIN, GPIO.OUT)

while True:
    GPIO.output(LED_PIN,
GPIO.HIGH)
    time.sleep(1)
    GPIO.output(LED_PIN,
GPIO.LOW)
    time.sleep(1)
    GPIO.cleanup()
```

### ASSIGNMENT 3 PYTHON PROGRAMMING



The image shows a code editor window with a toolbar at the top. The toolbar includes a close button (X), a '+ Code' button, a '+ Text' button, a 'Copy to Drive' button, a green checkmark, 'RAM' and 'Disk' status indicators, and an 'E' icon. Below the toolbar, a text prompt reads 'Double-click (or enter) to edit'. The main area of the editor contains a Python script for controlling an LED. The script imports the RPi.GPIO module as GPIO and the time module. It sets LED\_PIN to 17, configures the GPIO mode to BCM, and sets up the LED\_PIN for output. A while loop turns the LED on (HIGH) for 1 second and off (LOW) for 1 second. The script ends with a call to GPIO.cleanup().

```
import RPi.GPIO as GPIO
import time

LED_PIN = 17

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while True:
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GPIO.HIGH)
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    GPIO.output(LED_PIN,
GPIO.LOW)
    time.sleep(1)
GPIO.cleanup()
```