

ASSIGNMENT 3
PYTHON PROGRAMMING

Assignment Date	30 SEPTEMBER 2022
Student Name	T.RAVICHANDRAN
Student Roll Number	962719106024
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:

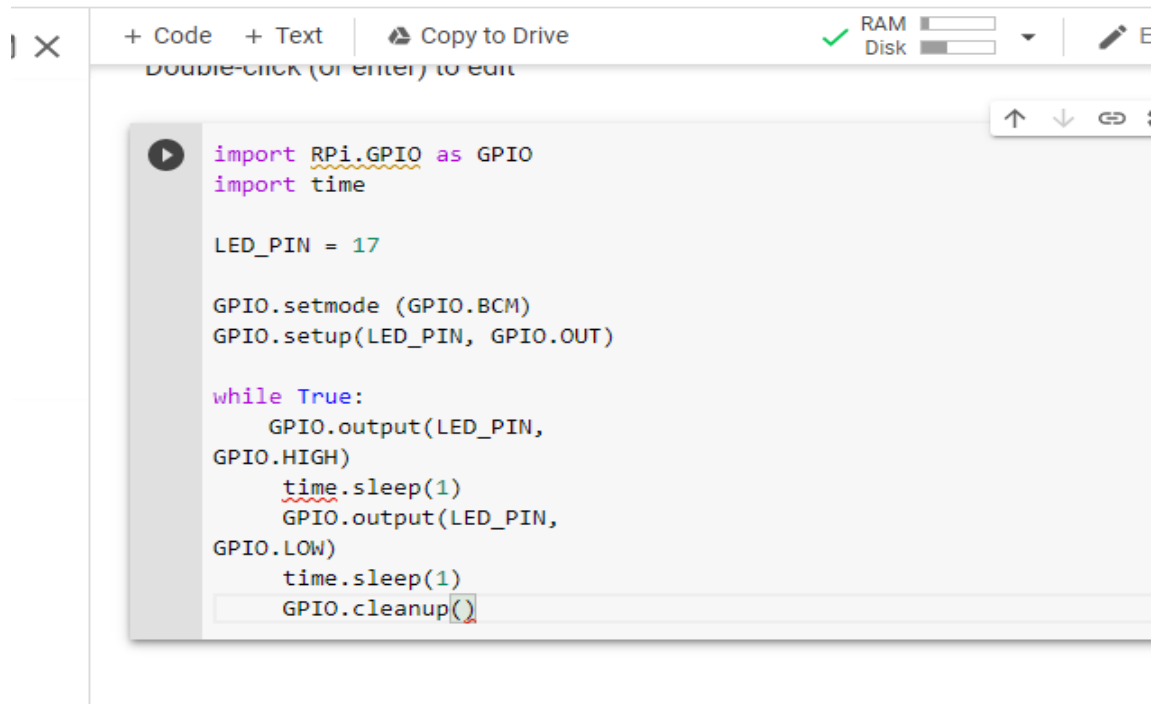
```
import RPi.GPIO as GPIO
import time

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()
```

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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 RPi.GPIO as GPIO and the time module. It sets LED_PIN to 17, configures GPIO mode to BCM, and sets up the 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 cleanup call. A play button icon is visible on the left side of the code block.

```
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GPIO.LOW)
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