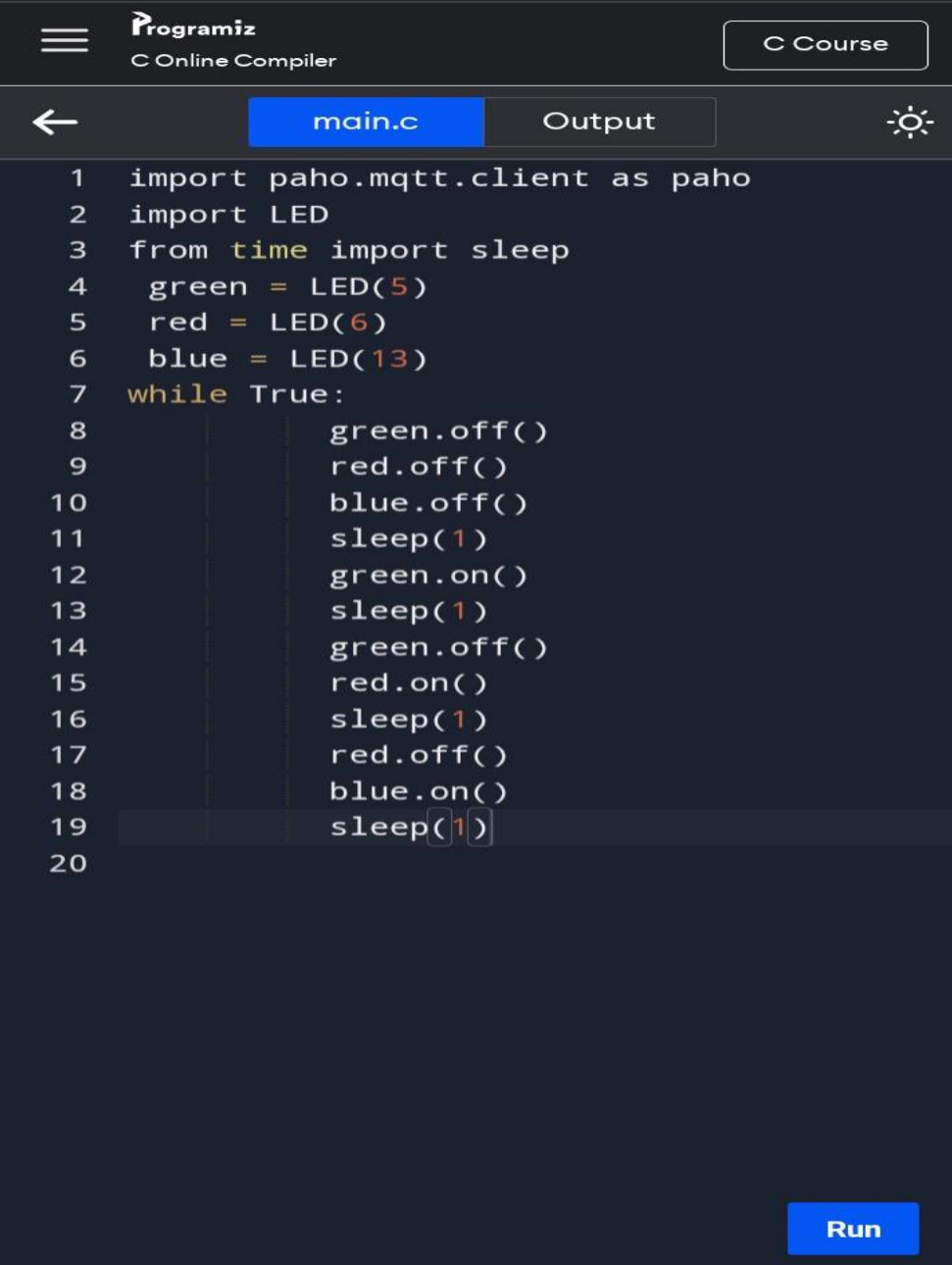


PYTHON CODE FOR BLINKING LED AND TRAFFIC LIGHT FOR RASPBERRY PI

ASSIGNMENT – III



The screenshot shows the Programiz C Online Compiler interface. At the top, there is a logo for Programiz and the text "C Online Compiler". A button labeled "C Course" is in the top right. Below the header, there is a navigation bar with a back arrow, a tab labeled "main.c", and a tab labeled "Output". A settings icon is on the far right. The main area contains Python code for a traffic light simulation. The code imports the paho.mqtt.client module, the LED module, and the time module. It then initializes three LED objects: green (pin 5), red (pin 6), and blue (pin 13). A while loop runs indefinitely, turning the green LED on for 1 second, then off, then the red LED on for 1 second, then off, then the blue LED on for 1 second, then off. The code is as follows:

```
1 import paho.mqtt.client as paho
2 import LED
3 from time import sleep
4 green = LED(5)
5 red = LED(6)
6 blue = LED(13)
7 while True:
8     green.off()
9     red.off()
10    blue.off()
11    sleep(1)
12    green.on()
13    sleep(1)
14    green.off()
15    red.on()
16    sleep(1)
17    red.off()
18    blue.on()
19    sleep(1)
20
```

A "Run" button is located at the bottom right of the code editor.

CODE:

```
import paho.mqtt.client as paho
import LED
import time from sleep

green = LED(5)
red = LED(6)
blue = LED(13)

while True:
    green.off()
    red.off()
    blue.off()
    sleep(1)
    green.on()
    sleep(1)
    green.off()
    red.on()
    sleep(1)
    red.off()
    blue.on()
    sleep(1)
```