

Name: RAGUL PRITHVI D

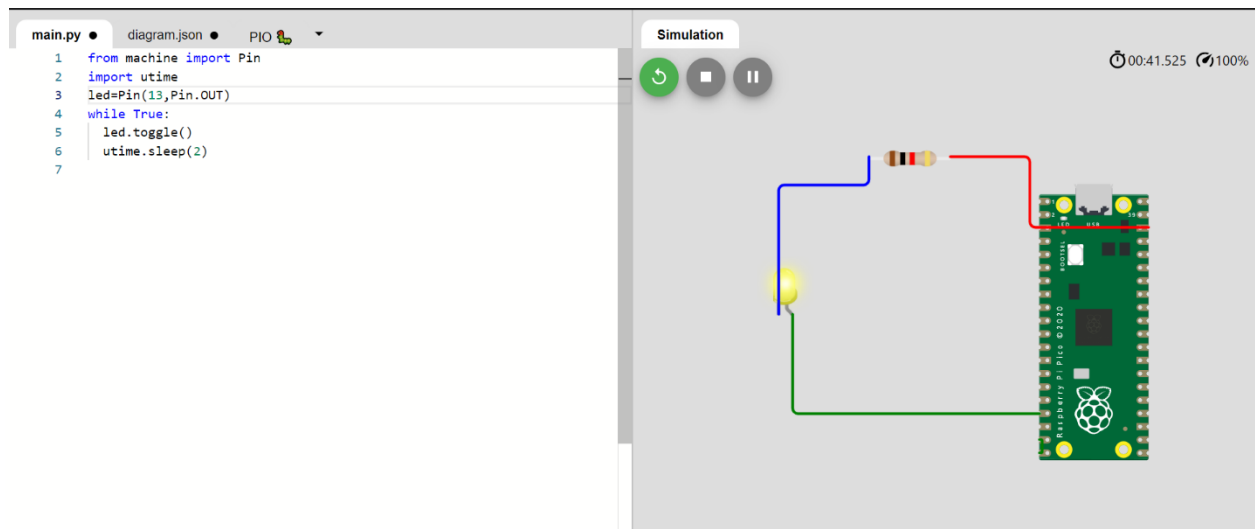
Rollno: 727719EUEC111

ASSIGNMENT-3

1.LED

```
from machine import Pin
import utime
led=Pin(13,Pin.OUT)
while True:
    led.toggle()
    utime.sleep(1)
```

OUTPUT:



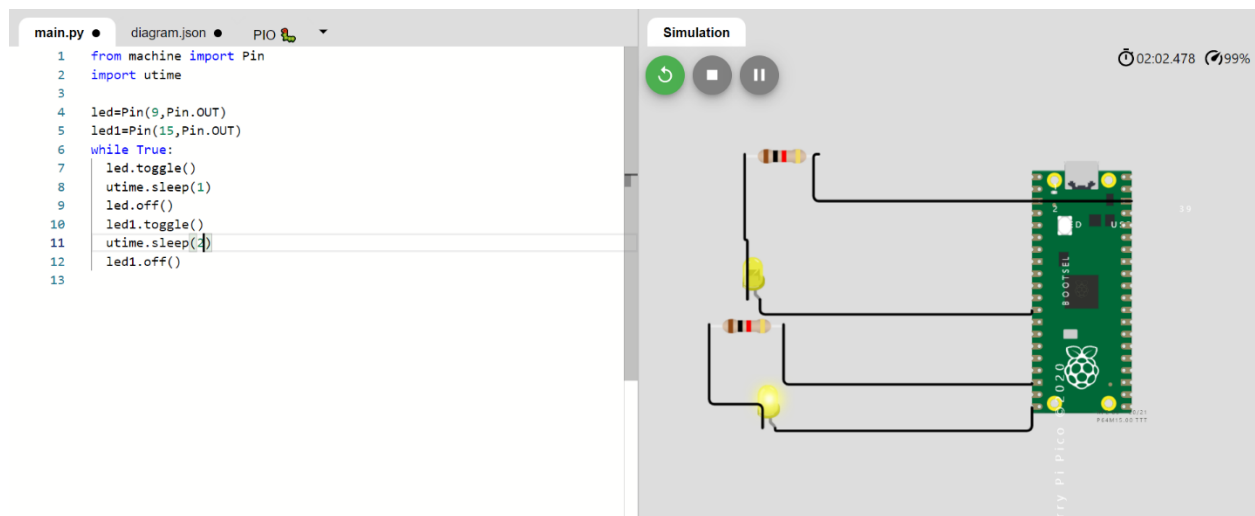
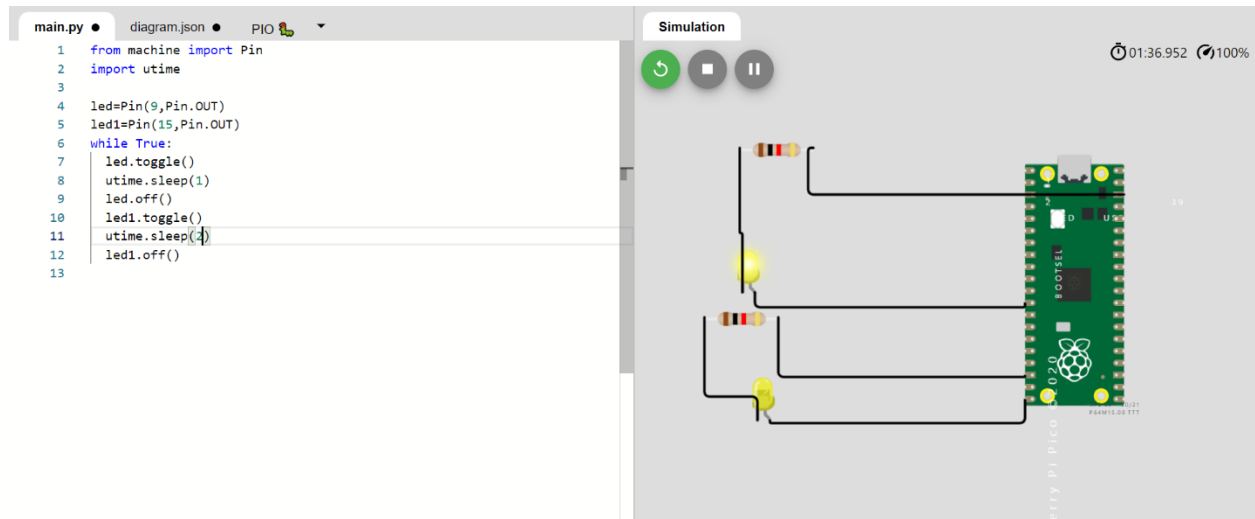
2.LEB BLINKING:

Main.py

```
from machine import Pin
import utime
led=Pin(9,Pin.OUT)
led1=Pin(15,Pin.OUT)
while True:
    led.toggle()
    utime.sleep(3)
    led.off()
```

```
led1.toggle()
utime.sleep(3)
led1.off()
```

OUTPUT:



Traffic Light

Main.py:

```
from machine import Pin
import utime
led=Pin(3,Pin.OUT)
led1=Pin(9,Pin.OUT)
led2=Pin(14,Pin.OUT)
while True:
```

```
led.toggle()
utime.sleep(3)
led.off()
led1.toggle()
utime.sleep(3)
led1.off()
led2.toggle()
utime.sleep(3)
led1.off()
```

diagram.json:

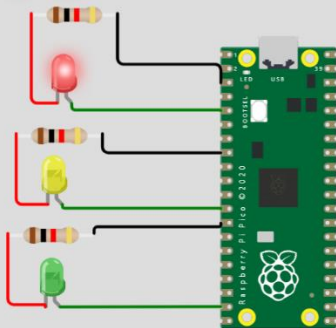
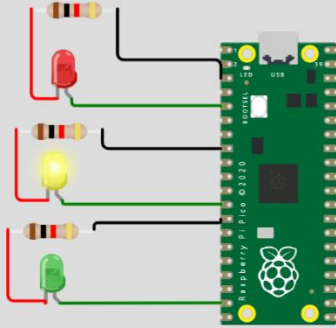
```
{
  "version": 1,
  "author": "Kaneeshka Shanmugam",
  "editor": "wokwi",
  "parts": [
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      "id": "pico",
      "top": 0,
      "left": 0,
      "attrs": { "env": "micropython-20220117-v1.18" }
    },
    {
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      "id": "led2",
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      "left": -133.31,
      "attrs": { "color": "yellow" }
    },
    {
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      "id": "led3",
      "top": 143.51,
      "left": -134.98,
      "attrs": { "color": "limegreen" }
    },
    {
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      "top": -24.49,
      "left": -129.65,
      "attrs": { "value": "1000" }
    },
    {
```

```

    "type": "wokwi-resistor",
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    "top": 57.85,
    "left": -139.98,
    "attrs": { "value": "1000" }
  },
  {
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    "attrs": { "value": "1000" }
  },
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    "top": 4.18,
    "left": -126.98,
    "attrs": { "color": "red" }
  }
],
"connections": [
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  [ "led1:A", "pico:GP3", "green", [ "v4.4", "h105" ] ],
  [ "undefined:undefined", "undefined:undefined", null, null ],
  [ "undefined:undefined", "undefined:undefined", null, null ],
  [ "led2:A", "pico:GP9", "green", [ "v2.73", "h108" ] ],
  [ "undefined:undefined", "undefined:undefined", null, null ],
  [ "undefined:undefined", "undefined:undefined", null, null ],
  [ "led3:A", "pico:GP14", "green", [ "v-0.26", "h111" ] ]
]
}

```

OUTPUT :

main.py	Simulation
<pre>1 from machine import Pin 2 import utime 3 led=Pin(3,Pin.OUT) 4 led1=Pin(9,Pin.OUT) 5 led2=Pin(14,Pin.OUT) 6 while True: 7 led.toggle() 8 utime.sleep(3) 9 led.off() 10 led1.toggle() 11 utime.sleep(3) 12 led1.off() 13 led2.toggle() 14 utime.sleep(3) 15 led1.off() 16</pre>	<p>00:55.992 99%</p> 
<pre>1 from machine import Pin 2 import utime 3 led=Pin(3,Pin.OUT) 4 led1=Pin(9,Pin.OUT) 5 led2=Pin(14,Pin.OUT) 6 while True: 7 led.toggle() 8 utime.sleep(3) 9 led.off() 10 led1.toggle() 11 utime.sleep(3) 12 led1.off() 13 led2.toggle() 14 utime.sleep(3) 15 led1.off() 16</pre>	<p>00:39.311 99%</p> 
<pre>1 from machine import Pin 2 import utime 3 led=Pin(3,Pin.OUT) 4 led1=Pin(9,Pin.OUT) 5 led2=Pin(14,Pin.OUT) 6 while True: 7 led.toggle() 8 utime.sleep(3) 9 led.off() 10 led1.toggle() 11 utime.sleep(3) 12 led1.off() 13 led2.toggle() 14 utime.sleep(3) 15 led1.off() 16</pre>	<p>01:56.849 99%</p> 