ASSIGNMENT-3

PYTHON CODE

BLINKING OF LED USING RASBERRYPI

```python
from machine import Pin        #interfacing with the rasberrypi pico

from time import sleep

led = Pin(17, Pin.OUT)         #pin number - 17; pin function - output

while True:

led.value(1)                   #set the pin 17 to high

sleep(1)                       #delay for 1 second

led.value(0)                   #set the pin 17 to low

sleep(1) #delay for 1 second
```

TRAFFIC LIGHT USING RASBERRYPI

```python
from machine import Pin          # interfacing with the rasberrypi pico
from time import sleep
red_led = Pin(17, Pin.OUT)       #pin number - 17; pin function - output
yellow_led = Pin(18, Pin.OUT)    #pin number - 18; pin function - output
green_led = Pin(19, Pin.OUT)     #pin number - 19; pin function - output
while True:
        print("Stop - red ")              #stop signal - red glows
        red_led.value(1)
        yellow_led.value(0)
        green_led.value(0)
        sleep(4)
        print("Alert - yellow ")          #Alert signal - yellow glows
        red_led.value(0)
        yellow_led.value(1)
        green_led.value(0)
        sleep(1)
        print("Go - Green ")              #Go signal - green glows
        red_led.value(0)
        yellow_led.value(0)
        green_led.value(1)
        sleep(3)
```