

IBM- ASSIGNMENT 3

PYTHON CODE FOR BLINKING OF LED USING RASBERRYPI

```
from machine import Pin      # interfacing with the raspberrypi 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
```

PYTHON CODE FOR TRAFFIC LIGHT USING RASBERRYPI

```
from machine import Pin          # interfacing with the raspberrypi 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)
```