ASSIGNMENT – 3

BLINKING OF LED:

```
module for interfacing with the rasberrypi pico
from machine import Pin
#module for using sleep function(delay)
from time import sleep
#creating a new object "led" of class Pin
#led attributes
#pin number - 17; pin function - output
led = Pin(17, Pin.OUT)
#while function used as void loop to execute the function reaptedly
while True:
  led.value(1) # set the pin 17 to high
  sleep(2) #delay for 2 second
  led.value(0) #set the pin 17 to low
```

TRAFFIC LIGHT:

```
#module for interfacing with the rasberrypi pico
from machine import Pin
#module for using sleep function(delay)
from time import sleep
#red_led attributes
#pin number - 17; pin function - output
red_led = Pin(17, Pin.OUT)
#yellow_led attributes
#pin number - 18; pin function - output
yellow_led = Pin(18, Pin.OUT)
#green_led attributes
#pin number - 19; pin function - output
green_led = Pin(19, Pin.OUT)
```

```
#while function used as void loop to execute the function reaptedly
while True:
  #stop signal - red glows
  print("Stop - red glows for 4 seconds")
  red_led.value(1)
  sleep(4)
  red_led.value(0)
  #Wait signal - yellow glows
  print("Wait - yellow glows for 2 second")
  yellow_led.value(1)
  sleep(2)
  yellow_led.value(0)
  #Go signal - green glows
  print("Go - Green glows for 4 seconds")
  green_led.value(1)
  sleep(4)
  green_led.value(0)
```