**ASSIGNMENT – III**

**1.Python code for Blinking of light using Rasberry pi**

#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 True:

  led.value(1)

  sleep(1) #delay for 1 second

  led.value(0) #set the pin 17 to low

  sleep(1) #delay for 1 second

**2.Traffic light controller**

#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

#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 True:

#Alert signal

print("Alert - yellow glows for 2 second")

  red\_led.value(0)

  yellow\_led.value(1)

  green\_led.value(0)

  sleep(2)

  #stop signal

  print("Stop - red glows for 5 seconds")

  red\_led.value(1)

  yellow\_led.value(0)

  green\_led.value(0)

  sleep(5)

  #Go signal

  print("Go - Green glows for 4 seconds")

  red\_led.value(0)

  yellow\_led.value(0)

  green\_led.value(1)

  sleep(4)