Assignment – 3

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1.Raspberry Pi Program to Blink A LED

```
import RPi.GPIO as GPIO # Import Raspberry Pi GPIO library

from time import sleep # Import the sleep function from the time module

GPIO.setwarnings(False) # Ignore warning for now

GPIO.setmode(GPIO.BOARD) # Use physical pin numbering

GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW) # Set pin 8 to be an output pin and set initial value to low (off) while

True: # Run forever

  GPIO.output(8, GPIO.HIGH) # Turn on

  sleep(1) # Sleep for 1 second

  GPIO.output(8, GPIO.LOW) # Turn off

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

2.Raspberry Pi Program for Traffic Light.

```
from gpiozero import Buzzer from gpiozero import Button

from gpiozero import LED

from time import sleep

button = Button (21) buzzer = Buzzer (15)

redled = LED(25)

yellowled = LED(8) greenled = LED(7)

while True:

    if button.is_pressed:

      redled.on()

      buzzer.on()

      sleep(2)

      redled.off()

      buzzer.off()

      yellowled.on()

      sleep(2)

      yellowled.off()

      greenled.on()

      sleep(2)

      greenled.off()

      break
```