**IBM ASSIGNMENT – 3**

**Team No:3**

**Name: Sanjay Karthick R**

**Reg No: 1919103097**

Board: Rasberry pi

1. Python code for blinking LED
2. Python code for Traffic lights

**i) LED Blinking**

**import** RPi.GPIO **as** GPIO

**from** *time* **import** sleep

GPIO.setwarnings(**False**

GPIO.setmode(GPIO.BOARD)

GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW)

**while** **True**:

GPIO.output(8, GPIO.HIGH)

sleep(1)

GPIO.output(8, GPIO.LOW)

sleep(1)

**ii)Traffic lights control**

import RPi.GPIO as GPIO

import time

GPIO.setmode(GPIO.BCM)

GPIO.setup(9, GPIO.OUT)

GPIO.setup(10, GPIO.OUT)

GPIO.setup(11, GPIO.OUT)

while True:

GPIO.output(9, True)

time.sleep(3)

GPIO.output(10, True)

time.sleep(1)

GPIO.output(9, False)

GPIO.output(10, False)

GPIO.output(11, True)

time.sleep(5)

GPIO.output(11, False)

GPIO.output(10, True)

time.sleep(2)

GPIO.output(10, False)