IBM TASK: 3

3. Write python code for blinking LED and Traffic lights for Raspberry pi.

# INTERFACING LED BLINKING WITH RASPBERRY PI:

import RPi.GPIO as GPIO import time

LED\_PIN = 17

GPIO.setmode(GPIO.BCM) GPIO.setup(LED\_PIN, GPIO.OUT) GPIO.output(LED\_PIN, GPIO.HIGH)

time.sleep(1) GPIO.output(LED\_PIN, GPIO.LOW)

GPIO.cleanup()

# INTERFACING TRAFFIC LIGHTS WITH RASPBERRY PI:

Import Rpi.GPIO as GPIO From time import sleep GPIO.setmode(GPIO.BOARD) GPIO.setup(16,GPIO.OUT) GPIO.setup(18,GPIO.OUT) GPIO.setup(22,GPIO.OUT)

GPIO.output(16,False) GPIO.output(18,False) GPIO.output(22,False) While True:

GPIO.output(16,True) GPIO.output(18,False) GPIO.output(22,False) Sleep(5) GPIO.output(16,False) GPIO.output(18,True) GPIO.output(22,False) Sleep(3) GPIO.output(16,False) GPIO.output(18,False)

GPIO.output(22,True) Sleep(1) GPIO.cleanup()