**NAME: SUBASH**

**REGISTER NUMBER: 714019106110**

**ASSIGNMENT: 3**

# LED BLINKING

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(2) # Sleep for 2 second GPIO.output(8, GPIO.LOW) # Turn off sleep(2) # Sleep for 2

# TRAFFIC LIGHTS

impoít Rpi.GPIO as GPIO impoít time impoít signal impoít sys

GPIO.setmode(GPIO.BCM)

GPIO.setup(9,GPIO.OUľ)

GPIO.setup(10,GPIO.OUľ)

GPIO.setup(11,GPIO.OUľ) def allLightsOff(signal,fíameí): GPIO.output(9,False)

GPIO.output(10,False)

GPIO.output(11,False) GPIO.cleanup() sys.exit(0) signal.signal(signal.SIGINľ,allLightsOff) while ľíue: Red GPIO.output(9,ľíue) ľime.sleep(3)

Red and ambeí GPIO.output(10,ľíue) ľime.sleep(1) Gíeen

GPIO.output(9,False)

GPIO.output(10,False) GPIO.output(11,ľíue)

ľime.sleep(5) Ambeí

GPIO.output(11,False) GPIO.output(10,ľíue) ľime.sleep(2)

Ambeí off(íed comes on at top of loop)

GPIO.output(10,False)