NPR COLLEGE OF ENGINEERING AND TECHNOLOGY DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

IBM NALAIYA THIRAN ASSIGNMENT- III

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**PROBLEM**:

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

# Blinking 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)

# Traffic Light:

from gpiozero import LED red = LED(22)

amber = LED(27) green = LED(17) red.blink(1, 1)

amber.blink(2, 2)

green.blink(3, 3)