NPR COLLEGE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION

ASSIGNMENT- III

**TEAM ID :** B3-3M5E

**NAME:**A.Afrin Shifana

**PROBLEM STATEMENT:**IoT Based Safety Gadget for Child Safety Monitoring and Notification

**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 one sec

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)