## **NALAIYA THIRAN**

## **ASSIGNMENT-3**

USER CASE: PERSONAL ASSISTANCE FOR SENIORS WHO ARE SELF RELIANT

BY TEAM MEMBER 3: KAMAL RAJ.R

Write a python code for Blinking LED and Traffic light for Raspberry pi

## **CODE FOR BLINKING LED:**

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)

## **CODE FOR TRAFFIC LIGHT:**

import RPi.GPIO as GPIO import time import signal import sys

GPIO.setmode(GPIO.BCM)
GPIO.setup(9, GPIO.OUT)

```
GPIO.setup(10, GPIO.OUT)
GPIO.setup(11, GPIO.OUT)
def allLightsOff(signal, frame):
   GPIO.output(9, False)
   GPIO.output(10, False)
   GPIO.output(11, False)
   GPIO.cleanup() sys.exit(0)
signal.signal(signal.SIGINT, allLightsOff) 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)
```