ASSIGNMENT-3

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Register Number	421819106014
Date	29-09-2022
Team ID	PNT2022TMID38992
Project Name	lot Based Safety Gadget For Child Safety Monitoring
Maximum Marks	2 Marks

QUESTION-1:

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

Solution:

#LED BLINKING:

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: #infinite loop

GPIO.output(8, GPIO.HIGH) # Turn on

print("The LED is ON") sleep(5)

Sleep for 5 second GPIO.output(8,

GPIO.LOW) # Turn off print("The

LED is OFF") sleep(5) # Sleep for 5

second

#TRAFFIC LIGHT CODE:

from gpiozero import LED

from time import sleep

```
red= LED(17) #pin numbers connected to Led's
amber=(22) green=(27)
while True:
red.on() #RED light print("Red
light is ON") for i in
range(60,0,-1):
print("Remaining time: ",i)
sleep(1) red.off() amber.on() #
AMBER light print("Yellow
light is ON") for i in range(5,0,-
1):
print("Remaining time: ",i)
sleep(1) amber.off() green.on
#GREEN light print("Green
light is ON") for i in
range(40,0,-1):
print("Remaining time: ",i)
sleep(1) green.off()
```