

Assignment-3

Assignment Date	29-09-2022
Student Name	ARCHANA G
Student Roll Number	715519106004
Maximum Marks	2 Marks

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

Code:

1. LED Blinking #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
```

2. TRAFFIC LIGHT

```

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()

```