ASSIGNMENT 3

(PYTHON PROGRAMMING FOR RASPBERRY PI)

ASSIGNMENT DATE	6 TH OCTOBER 2022
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MAXIMUM MARKS	2 MARKS

QUESTION:

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

PYTHON CODE:

1) BLINKING OF LED:

```
from gpiozero import Button, LED
led = LED(25)
while True:
button.wait_for_press()
led.on()
button.wait_for_release()
led.off()
while True:
led.on()
button.wait for press()
led.off()
button.wait_for_release()
while True:
led.blink(2,2)
button.wait_for_press()
led.off()
 button.wait for release()
```

```
2)TRAFFIC LIGHTS:
from gpiozero import Button, TrafficLights
led = LED(25)
lights = TrafficLights(25, 8, 7)
while True:
button.wait for press()
lights.on()
button.wait_for_release()
lights.off()
while True:
lights.blink()
button.wait for press()
lights.off()
button.wait for release()
from gpiozero import Button, TrafficLights, Buzzer
buzzer = Buzzer(15)
while True:
lights.on()
buzzer.off()
button.wait_for_press()
lights.off()
buzzer.on()
button.wait for release()
while True:
lights.blink()
buzzer.beep()
button.wait for press()
lights.off()
buzzer.off()
button.wait_for_release()
from time import sleep
while True:
```

