ASSIGNMENT 3 PYTHON PROGRAMMING - 2

Assignment Date	3 October 2022
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Question - 1

Write Python code for Blinking LED and Traffic Lights for Raspberry Pi. Only the Python code is enough and need not to execute it on the board.

Solution Blinking of an LED

```
# Using in-built functions
from gpiozero import Button, LED, Buzzer
#connecting led button & buzzer to gpio pins
led = LED(18)
button = Button(16)
buzzer = Buzzer(7)
#blinking led based on button press
while True:
button.wait_for_press()
led.blink(1,1)
buzzer.on()
button.wait_for_release()
led.off()
buzzer.off()
```

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led.off()
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```

Traffic Lights

```
# Creating Traffic light using RaspberryPi
from gpiozero import TrafficLights, Button
from time import sleep
signal = TrafficLights(22,8,7)
button = Button(16)
while True:
button.wait_for_press()
signal.red.on()
sleep(1)
signal.amber.on()
sleep(1)
signal.green.on()
sleep(1)
signal.off()
```

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```