Assignment - 3

Python Programming

Assignment Date	1 October 2022
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Maximum Marks	2 Marks

Question-1:

Write a python code blinking a LED for Raspberry pi

Solution:

Code:

```
import RPi.GPIO as GPIO # Import Raspberry Pi GPIO library
from time import sleep # Import the sleep function from the time module
        GPIO.setwarnings(False) # Ignore warning for now
        GPIO.setmode(GPIO.BOARD) # Use physical pin numbering
        GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW) # Set pin 8 to be an output pin and
        set initial value to low (off)
while True: # Run forever
        GPIO.output(8, GPIO.HIGH) # Turn on
        sleep(1) # Sleep for 1 second
        GPIO.output(8, GPIO.LOW) # Turn off
        sleep(1) # Sleep for 1 second
```

Question-2:

Write a python code Traffic lights for Raspberry pi

Solution:

Code:

```
from gpiozero import Button, TrafficLights, Buzzer

from time import sleep


buzzer = Buzzer(15)

button = Button(21)

lights = TrafficLights(25, 8, 7)


while True:

    button.wait_for_press()

    buzzer.on()
```

```
light.green.on()

sleep(1)

lights.amber.on()

sleep(1)

lights.red.on()

sleep(1)

lights.off()

buzzer.off()
```