Assignment -3

Python code for Raspberry pi

Assignment Date	28-October-2022
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Maximum Marks	2 Marks

Question-1:

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

Python code for blinking LED using *Raspberry* pi:

```
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
```

Python code for TRAFFIC LIGHTS for Raspberry pi:

```
1. from gpiozero import Button, TrafficLights, Buzzer
2. from time import sleep
3.
4. buzzer = Buzzer(15)
5. button = Button(21)
6. lights = TrafficLights(25, 8, 7)
8. while True:
9.
              button.wait_for_press()
               buzzer.on()
10.
11.
               light.green.on()
12.
               sleep(1)
13.
               lights.amber.on()
               sleep(1)
14.
15.
               lights.red.on()
16.
               sleep(1)
17.
               lights.off()
18.
               buzzer.off()
```