Assignment-3

Python Programming

Assignment Date	06 October 2022
Student Name	SASI K
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Maximum Marks	2 Marks

Question-1:

Write a python code for led blinking in raspberry pi

SOLUTION:

```
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
tolow (off)


while True: # Run forever

 GPIO.output(8, GPIO.HIGH) # Turn

 onsleep(1) # Sleep for 1 second

 GPIO.output(8, GPIO.LOW) # Turn

 offsleep(1) # Sleep for 1 second
```

Question-2:

Write a python code for traffic light in raspberry pi

SOLUTION:

```python
from gpiozero import Button, TrafficLights,
Buzzerfrom time import sleep


buzzer = Buzzer(7)

button = Button(19)

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()
```