Assignment-3

Python Programming

Assignment Date	06 October 2022
Student Name	SWEATHA B
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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:

```
from gpiozero import Button, TrafficLights,
```

Buzzerfrom time import sleep

```
buzzer = Buzzer(22)
button = Button(23)
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()