Assignment -3

Python Programming

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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 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

```
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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.setwode(GPIO.BOARD) # Use physical pin numbering
GPIO.setwole, GPIO.DOVI, 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:

while True:
 button.wait_for_press()
 buzzer.on()
 light.green.on()
 sleep(1)
 lights.amber.on()
 sleep(1)
 lights.red.on()
 sleep(1)
 lights.ref()
 buzzer.off()

```
Write a python code for traffic light in raspberry pi
SOLUTION:
 from gpiozero import Button, TrafficLights, Buzzer
from time import sleep
buzzer = Buzzer(18)
button = Button(22)
lights=TrafficLights(25,9, 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()
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from gpiozero import Button, TrafficLights, Buzzer
from time import sleep
```