Assignment -3

Python Programming

Assignment Date	02 October 2022
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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

```
File Edit Format Run Options Window Help
import RFI.GFIO as GFIO # Import Raspberry Pi GFIO library
from time import sleep # Import the sleep function from the time module

GFIO.setwarnings(False) # Ignore warning for now
GFIO.setwode (GFIO.BOARD) # Use physical pin numbering
GFIO.setwp(8, GFIO.OUT, initial=GFIO.LOW) # Set pin 8 to be an output pin and set initial value to low (off)

while True: # Run forever
GFIO.output(8, GFIO.HIGH) # Turn on
sleep(1) # Sleep for 1 second
GFIO.output(8, GFIO.LOW) # Turn off
sleep(1) # Sleep for 2 second
```

```
Question-2:
Write a python code for traffic light in raspberry pi
SOLUTION:
            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()
File Edit Format Run Options Window Help
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.red.of()
buzzer.off()
```