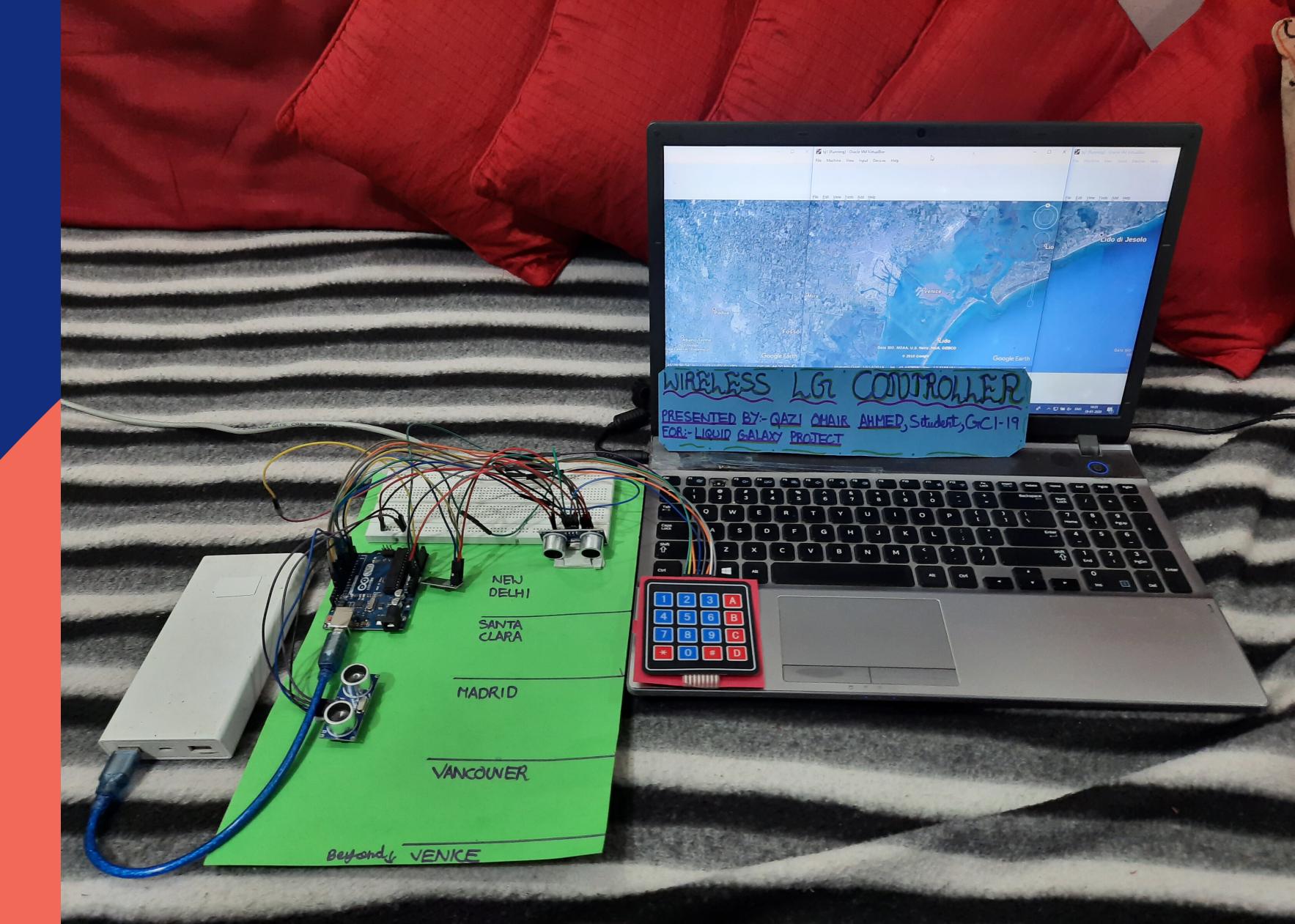


LIQUID GALAXY PROJECT



# WIRELESS LG CONTROLLER



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Student, GCI 2019

# Topics

Major Components

Arduino

Keypad

Ultrasonic Sensors

Working of the Servers



# liquid galaxy

# Major Components

# ARDUINO WIFI

# Arduino microcontroller with ESP8266 WiFi module.

# KEYPAD

# Simulating 16 Liquid Galaxy actions.

# ULTRASONIC SENSORS

Zoom In + Out and moving LG to various cities.

# SERVERS

Processing data received by Arduino.

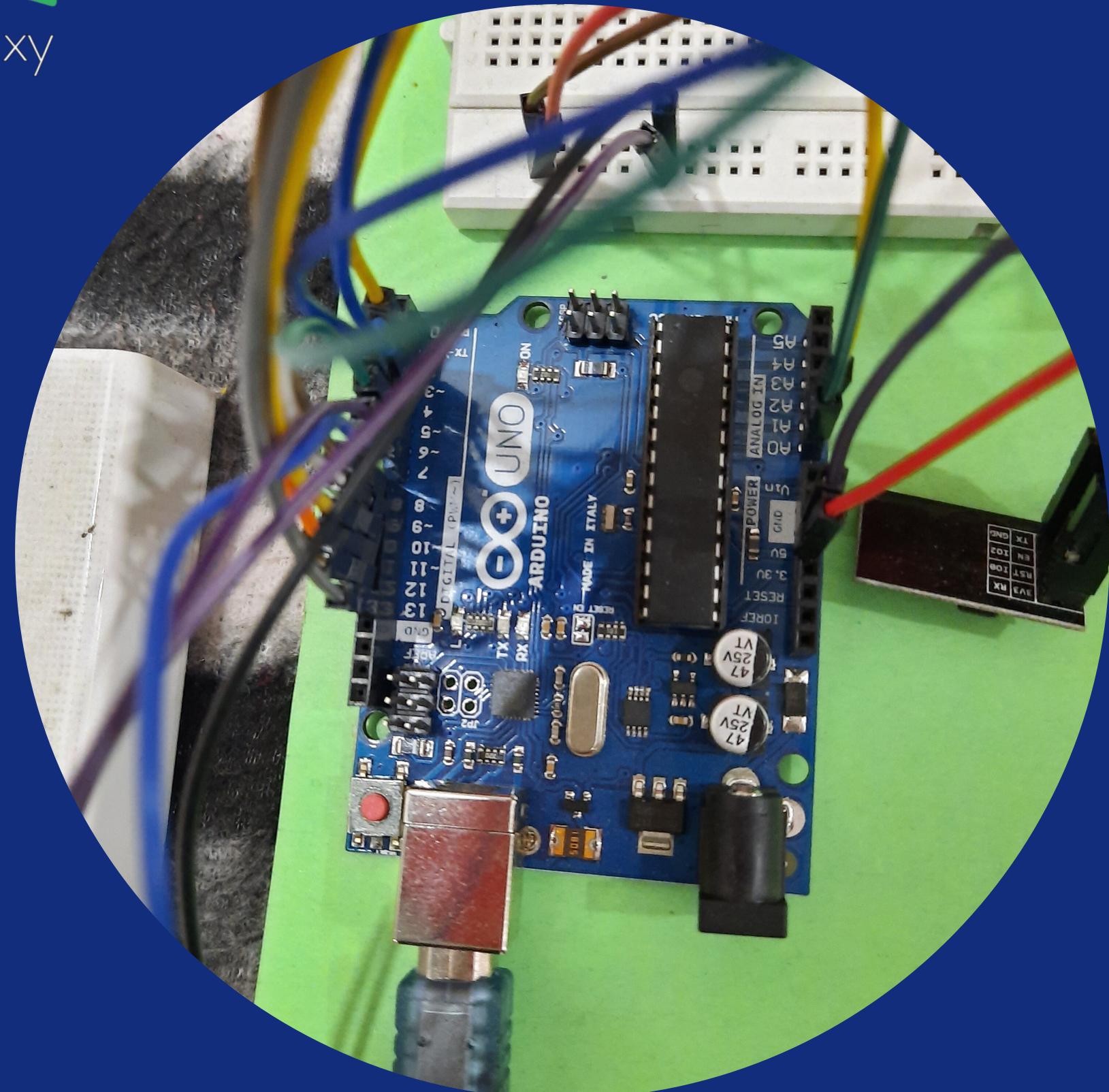
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# ARDUINO

Arduino with WiFi ESP8266  
module.



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# KEYPAD





liquid galaxy

## ULTRASONIC SENSOR - 1

Moving LG to various places.

## ULTRASONIC SENSOR - 2

Zooming in and zooming out.

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# SERVERS

## UDP SERVER

Simulating keypresses on master machine to trigger LG movements.

## HTTP SERVER

Moving LG to specified places.

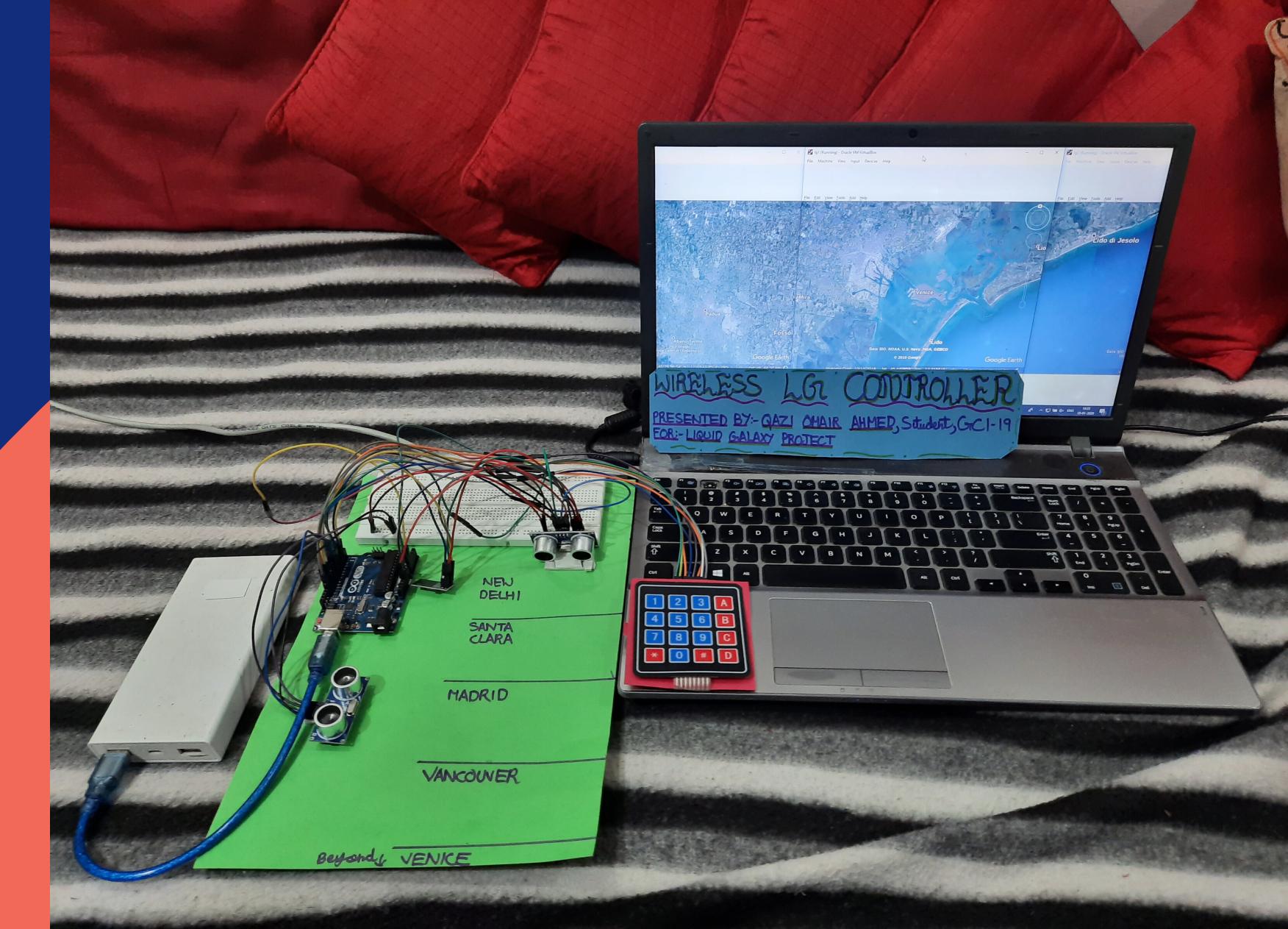
```
sock = socket.socket(socket.AF_INET, socket.SOCK_DGRAM)
sock.bind((UDP_IP, UDP_PORT))

# RECEIVING UDP MESSAGES
while True:
    data, addr = sock.recvfrom(2048)
    msg=data.decode().strip()
    print(msg)
```

# LIQUID GALAXY PROJECT



# THANK YOU :)



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