

## Week (10-11) Oct 22-31:

### Goals of the week:

- Get started with some application on the Raspberry
- learn how to remote desktop to Raspberry Pi from Mac

### General Notes:

During the week I received the Raspberry that I purchased, and I started to learn how to connect it and control it. The materials that will be used to connect Raspberry Pi on MacBook are:

- o Raspberry Pi 4 model B.
- o Micro USB Power Supply.
- o 4+GB SD Card.
- o SD card adapter (to hook the SD card up to the laptop).
- o Wi-Fi connection or Ethernet Cable.

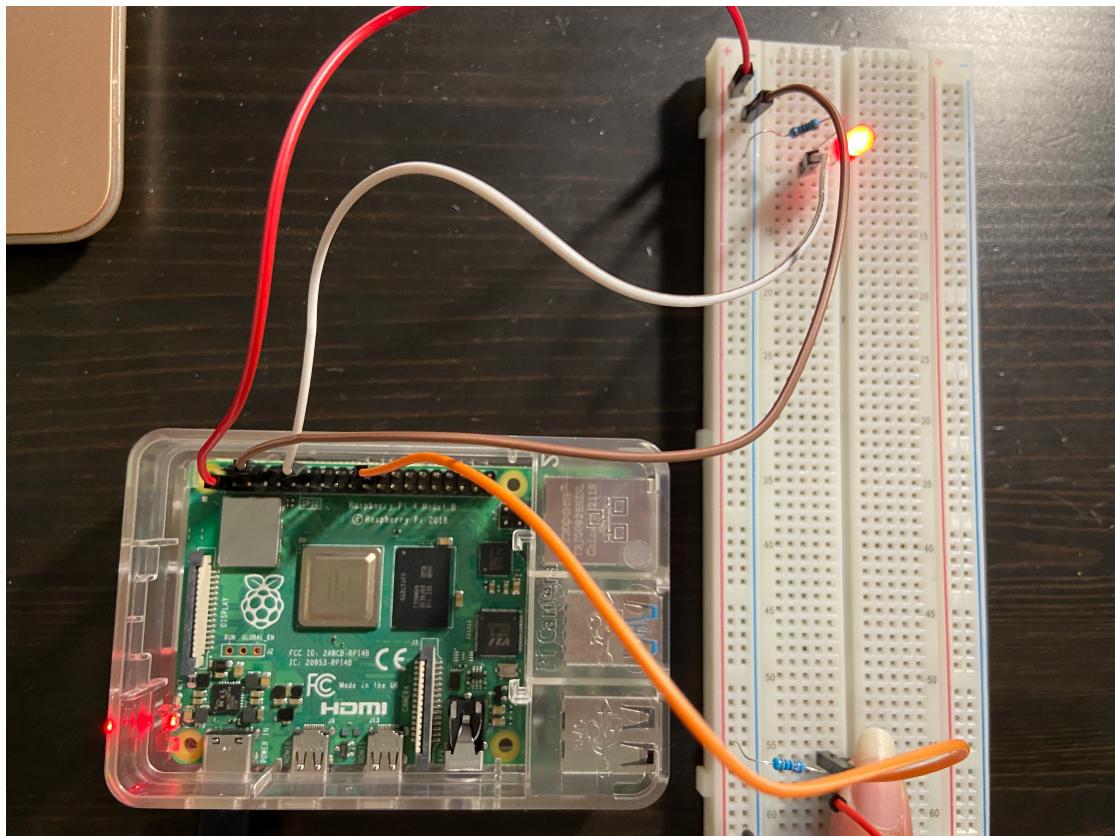
After collecting the materials first thing is hook up the SD card and prepare to install the software. Insert the SD card into a card reader and attached to the laptop by using a Micro SD adapter. Then download Raspbian <https://www.raspberrypi.org/downloads/raspbian/> Once Raspbian is downloaded, it's time to write it to the SD card by using the terminal

then by using VNC viewer connect the raspberry pi

After finishing the set up for Raspberry Pi, I started building some easy and simple circuits on breadboard and control it by programming the raspberry pi, the first one was blinking an LED and then I added a button switch to control it, the code above was used to program the Pi.

Components required for this example:

- o Small prototyping breadboard
- o 4 pieces of male-to-female jumper wires
- o 1 piece of male-to-male jumper wire
- o An LED
- o A 220 Ohm resistor
- o A10K ohm resistor
- o A push- button switch



### Results and Conclusions:

Understanding raspberry Pi helps me to understand the scope of our project and how we can achieve the integration between the software and the hardware

### Next Step:

Next step for this project is to get with the team to decide about the final design of the project.