Lab 1: Report

This is an individual submission (both members should submit individually). After completing the report, save as a PDF and upload the PDF to D2L (Submissions).

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Group No:	4

Set up and configure your Raspberry Pi

1. Why do we need to plug in a monitor, mouse, and keyboard to the Raspberry Pi?

   So we can do the initial set up of the device and set up remote access

2. Identify the challenges you faced during the Raspbian installation process.

   It failed twice and had to be completely restarted after class

3. Why does the Raspberry Pi manufacturer recommend clients to use 32-bit version over 64-bit version?

   Some sensors like the one used in our class don't work with the 64-bit version

Connect the Pi to a WIFI network

4. Why did we edit the `wpa_supplicant.conf` configuration file to be able to connect to WIFI?

> Tells the pi what network to connect to and the passkey for the network

5. Can we use any other editor instead of nano editor to edit and save the configuration files? Briefly explain.

> Yes as long as you have root permissions.

Securing your Pi

6. What is a root account and why do we create additional user accounts if we can log in as root?

> Allows each team member to change things locally and won't always effect the other

7. Briefly explain the reason behind SSH access restriction?

> Allows only specific people to ssh in to remote access

Configure your raspberry pi

8. Why do we uncheck auto login?

> To allow people to choose what user and also for safety

9. Identify four (4) hardware/software interfaces that you enabled.

> Ssh
> Vnc
> Spt
> I2c

Enable remote connections

10. Why do we need to enable remote access? Discuss.

> It allows both partners to work on the same ras from home and removes the need for peripheral devices

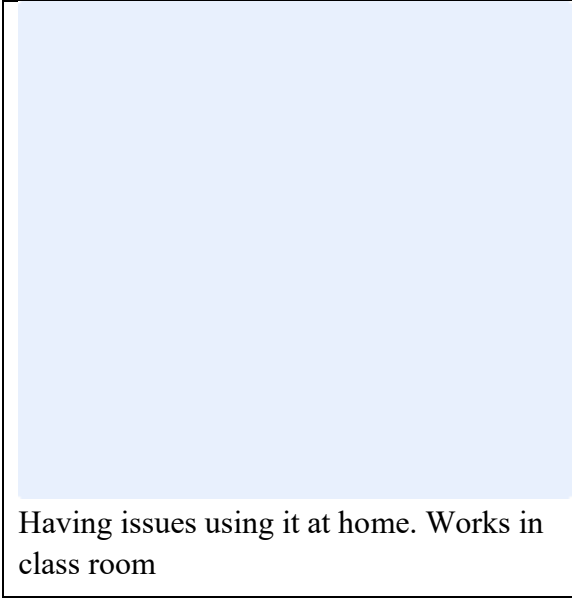## Connect to your Raspberry Pi via SSH

11. What is SSH?

> Secure Shell

Enable remote desktop

12. Why do we need remote desktop access?

> Access to the raspberry pi's gui

13. Include the following figures

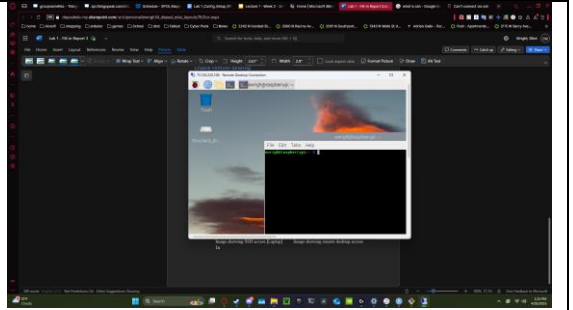| Having issues using it at home. Works in class room	
Image showing SSH access [Laptop] 1a	Image showing remote desktop access