1.

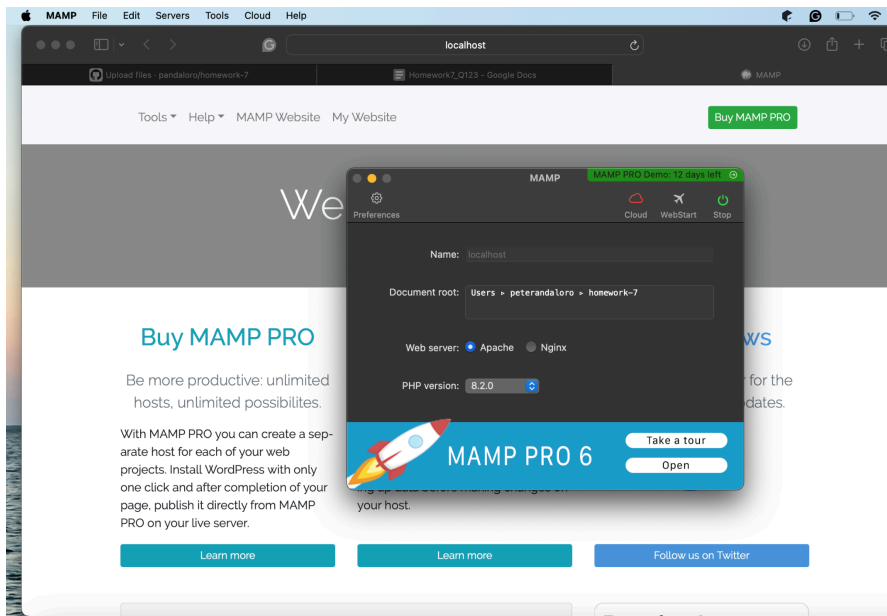**2. What are some examples of how PHP and JavaScript are alike and how they differ?**

PHP and Javascript are both examples of scripting languages. They are also both used in web development. They also have relatively similar syntax. Both languages are dynamically typed, so datatypes do not have to be declared for a variable before they are used.

They differ in a few different ways. Javascript is usually used for front-end activities (client-side), while PHP is used on the server side. In addition, PHP is executed on the server side using a server-side interpreter, while Javascript is executed using a javascript engine on the browser. Usually, PHP depends on synchronous execution while Javascript does not.

3. Define MVC, what are the responsibilities of each piece?

MVC stands for Model View Controller, a software architectural pattern used for developing user interfaces. It has 3 pieces that are defined below
1. Model- this handles the business logic and the data. (CRUD, implement business logic, notify views of changes, data validation, etc)
2. View handles the display and layout (display data, render elements, handle user interaction, etc)
3. Controller routes commands to the view and model parts (handle user input, interact with the model, update the view, etc)