Assignment 7.1: Review Session 9.1 Quick Check

1. What is a server-side program? What is a client-side program?

A server-side program is a program that runs on a backend server, whereas a client-side program is a program that runs on a client device.

2. Provide code to attach your HTML file to a script located in the tny_functions.js file. Assume that the script file is loaded asynchronously.

```
<script src="tny_functions.js" async></script>
```

3. What is the difference between asynchronously loading a script file and deferring the loading of the script file?

When a script file is loaded asynchronously, it is downloaded at the same time the HTML is parsed and will be executed as soon as it is downloaded, even if HTML parsing is not finished, meaning the script might execute before all of the DOM content has loaded. When a script file is deferred, it is still downloaded at the same time the HTML is parsed, but will not execute until the browser has finished parsing the HTML.

4. Provide code to insert the following comment text in a JavaScript file:

```
/*

Tulsa New Year's Bash


Clock Functions

*/
```

5. Provide the command to display an alert dialog box with the message "Happy New Year!".

```
window.alert("Happy New Year!");
```

6. What will be the result of running the following JavaScript command: WINDOW.ALERT("Page Loaded");

Uncaught ReferenceError: WINDOW is not defined

7. What is a breakpoint and why would you use a breakpoint in debugging your code?

A breakpoint allows you to pause execution of your code at a certain line and then step through your code line by line. This is useful for debugging because you can observe exactly what each line of code is doing, as well as determine the values of variables, at any point in your program.

8. What statement would be added to your JavaScript file to ensure that your code is strictly interpreted?

```
"use strict";
```