**M5 Learning Activity 1: Answer the following JS Questions**

**Note:** Read the given reference material and attend classroom discussion with your instructor to answer the following questions.

1. What is JavaScript?

It is a light-weight object-oriented-based scripting language and cross-platform. It isn’t a compiled language but it is a translated language.

It allows developers to create dynamic, responsive and instructive websites by enabling interactive features from the web application.

1. What are the different features of JavaScript? Describe each of the features.

There are following features of JavaScript:

All popular web browsers support JavaScript as they provide built-in execution environments.

JavaScript follows the syntax and structure of the C programming language. Thus, it is a structured programming language.

JavaScript is a weakly typed language, where certain types are implicitly cast (depending on the operation).

JavaScript is an object-oriented programming language that uses prototypes rather than using classes for inheritance.

It is a light-weighted and interpreted language.

It is a case-sensitive language.

JavaScript is supportable in several operating systems including, Windows, macOS, etc.

It provides good control to the users over the web browsers

1. What are the different techniques we have to include JS in a web application?

JavaScript provides 3 places to put the JavaScript code: within body tag, within head tag and external JavaScript file.

Inline example

<button type="button" onclick="document.write('Hello class, this is JavaScript output 2!')"> Try me!</button>

Internal

<script type="text/javascript">

        …

</script>

External

<link type"text/javascript" href “./xxxxxx.js">

1. Is JS backend or front end? Where does it gets executed?

It is a Front End because it runs run locally in the user browser. It isn’t a compiled language but it is a translated language.

1. What are the different JavaScript libraries?

<https://hackr.io/blog/top-javascript-libraries>

### DOJO toolkit

### jQuery

### Google polymer

### JavaScript InfoVis toolkit

### D3.js

### Pixi.js

### SWFObject

### Three.js

### Velocity.js

### 10. React js

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1. How do you add a comment in JavaScript code?

We can comment one line by using “//” or we can comment a paragraph by using this at the beginning “/\*” and that “\*/” at the end of the paragraph.

1. What is the tag you use to add JavaScript in your HTML file?

<script type=”text/javascript”>

……

document.write(“………..”);

window.alert(“…………..”);

console.log(“…………..”);

…….

</script>

1. What do we mean by JS is loosely typed?

JS is rigorous in the way that you write you code. It follows the syntax and structure of the C programming language and it is case sensitive.

1. What are the different scopes in JS programming?

There are two types of variables in JavaScript : local variable and global variable. As in C# these variables, according to where and how they are defined, have different scopes:

* + - Function scope (i.e. within a method/function),
    - Block scope (i.e. within an if block),
    - Global scope (i.e. available in all functions).

1. How do you view/display JS code output on your browser?

You can use the debugger tool of your browser (for Google Chrome : vertical … / more tools / Developer tools or “Crtl+Shift+i”).