**Web Site Building with CSS**

**Mid Term Exam**

1. Explain the cons and pros of using float property in CSS? (10/100)

Pros:

* Most popular way of layout and supported almost all frameworks.
* Easy to text and inline elements to wrap around it.

Cons:

* Sometimes have positioning issues because they are not in the page flow.
* It sometimes requires clearfix to add a new element, to avoid the parent element from collapsing.
* Can be quite painful if you're changing widths at 2-3 media query breakpoints, because the floats will need to be cleared that many times.
* No vertical centering
* No equal heights

1. Explain the difference of position: relative, position: absolute, position: fixed. (10/100)

Position Relative:

* It introduces the ability to use z-index on that element, which doesn't really work with statically positioned elements.
* It limits the scope of absolutely positioned child elements. Any element that is a child of the relatively positioned element can be absolutely positioned within that block.
* Ability to shift an element around based on its regular position by defining another positioning attributes like, top, bottom.

Position Absolute

* Allows you to literally place any page element exactly where you want it.
* When dfininig the attributes, values will be relative to the next parent element with relative (or absolute) positioning. If there is no such parent, it will default all the way back up to the <html> element itself meaning it will be placed relatively to the page itself.
* If you use this position, these elements are removed from the flow of elements on the page. An element with this type of positioning is not affected by other elements and it doesn't affect other elements.

Position Fixed:

* A fixed position element is positioned relative to the viewport, or the browser.
* The viewport doesn't change when the window is scrolled, so a fixed positioned element will stay right where it is when the page is scrolled

1. Create one page website that is using CSS for styles. You need to know all the CSS, HTML, or JS code in your files. (Don’t forget css file in “css” folder and images in “images” folder).

* Your web pages should be responsive (You can use the file or files you created for Quiz1 if you want). Use viewport and @media methods. Also, you need to use position: relative, position: absolute, and position: fixed at least once. (15/100)

For instance:

vertically and horizontally centered text on images

fixed contact us chat container on the right bottom of page

fixed social media buttons

* Align all the elements properly when the screen size (desktop, tablets and smart phones) changes. Add 2 media queries with 2 break points. (20/100)
* The navigation menu items should have underline when hover the links(10/100)
* Use google fonts on your web page. (5/100)
* Use overflow: hidden in a article. (10/100)
* Use background property with fixed value for your background of your web-site. (10/100)
* Organize your files, prefix css, format and validate your HTML. (10/100)