Assignment1

This assignment involves the creation of some PHP pages, making use of Javascript, HTML forms and PHP. You are building a page that allows you to view Skydiving data, or enter your own skydiving data.

This assignment is due on **Wednesday October 1st, by 11:59pm** and
will be automatically locked by the server at that time.

General Requirements

For full marks, all your web pages and CSS code **must validate correctly** (https://validator.w3.org/) and all your formatting should be done using CSS. You will lose marks for putting CSS directly into HTML tags. All CSS should be in the head section of your page.

You should be aware that this assignment, and all others, will be locked from your account precisely at the time of the assignment deadline.

Placement of Assignment Files

All the files you create for this assignment should be in the directory:

/var/www/html/students/<YOUR FOLDER>/XXXXXX/assn1/

Here, <YOUR FOLDER> is replaced with your student folder and XXXXXX is the secret subdirectory that was created for your account. **Do not share this with others.**

Instructions

For this assignment you will build three pages.

- *main.php*: a landing page that provides links to either enter new data (form.php) or view data (results.php)
- *form.php*: An HTML form that contains all the information available on a page of a skydiver's log book. See below.
- *results.php*: Your form.php page should submit to this one. Once you submit the data, you will combine the data that has been received with an existing array and display the accumulated results. If no form is submitted, display the provided data on its own (without integrated the newly submitted data)

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form.php - Required Data Fields in the form (10 marks)

This page should represent the idea of a skydiver wanting to log their latest jump. The required form **name** is in brackets. Here are the fields required:

- Jump number (jumpnum) is a **number field** in which the user enters a number
- Date (date) is a **date field** in which the user selects a date
- Time (time) is a **time field** in which the user enters a time
- Dropzone (dropzone) is a **text field** in which the user enters a location
- Aircraft (aircraft) is a **select field** in which the user selects the type of aircraft
    - include these 8 aircraft to choose from: Cessna 182, Cessna Caravan, Twin Otter, King Air, Skyvan, PAC, Dornier G92, Pilatus Porter
- Exit Altitude (exitalt) is a **number field** in which the user enters their exit altitude in meters

- Deploy Altitude (deployalt)
    - a **number field** in which the user enters their deploy (open parachute) altitude in meters

- Freefall time - minutes (ffminutes)
  - a **select menu** from which the user can select a number between 0 and 5
- Freefall time - seconds (ffseconds)
  - a **select menu** from which the user can select a number between 0 and 59
  - full marks here requires using a loop to generate the <option...>s
- Manoeuvres (manoeuvres) is a **text field** in which the user enters any manoeuvres performed during the dive
- Other jumpers (otherjumpers) is a **text field** in which the user can enter names of other jumpers
- Comments (comments) is a **TEXTAREA** in which the user can enter freeform comments
- Signature (signature) is a **text field** in which the user can enter the name of an instructor

The layout of the form is up to you. However, your design should adhere to the CRAP principles (google this). In particular, make careful use of proximity and spacing so that related parts of the form are close together. If it helps, you may use HTML tables to do this, but use CSS to handle the table formatting. Ultimately, the page should be clear and straightforward to use while reasonably appealing.

form.php - How can you test your form?
If you set your form tag like this:

<form method="POST" action="/emmell/ics4u/assn1/formTest.php">

You will receive helpful feedback on whether your form has the correct names/types of information.

form.php - Required Javascript (5 marks)
Two requirements:

- When the user selects their aircraft, display the appropriate provided aircraft picture based on that select somewhere prominently on your page. (Max width 300px)
- When the user attempts to submit the page, have JavaScript display an error if any field is not filled in.
  - NOTE: Do not rely on the browser to do this via the 'required' attribute, you must do this manually.

results.php - Provided Data (10 marks)
- Notice there is a file in your directory entitled: "jumpData.csv" – which contains 13 rows of data, and one row (the first row) with header names to indicate the file's format.
- Keep in mind that some skydivers have logged thousands of jumps, so the layout of this list should be compact, ideally with one line per jump.
- All data fields should be displayed in something close to a table format.
- To make this easier to read, you are asked to use the alternating row colors pattern.

How should you approach the work for this assignment?
- Make your three pages (main.php, form.php, results.php) in your assignment folder.
- On your main.php page, make a link to your other two pages.
- On form.php, show your form.
- Have your form submit to the test location to confirm it works, then direct it to results.php .
- On results.php, ignore the resulting form submission for now, work on reading the CSV.
- Once displaying all the contents, integrate what you receive from form submission into this.
- Once everything else is working, work on JavaScript pieces. (AND CHECK FOR VALIDITY!)