Week 3 Independent Project | Dairy Business

Due   16 Jul by 23:59   **Points**   16   **Submitting**   a website url
Available   until 16 Jul at 23:59

This assignment was locked 16 Jul at 23:59.

Overall Project Description

IP Objective: The goal of this week's Independent Project is to help us practice and understand better the complementary JavaScript concepts that we have covered throughout this week.

You just landed yourself a great deal and acquired a farm upcountry that has dairy cattle. These cows are well fed and they produce a fair amount of milk every day. Luckily, Brookside Dairies has also called you in, for yet another deal to sell your milk produce to them for processing. There's one problem though, you're very engaged in a website consultation company which leaves very little time for you to monitor milk production at your farm.

Your cows will make you rich if you monitor their milk production and sale, and you have skills to build a program with JavaScript, that helps you monitor production and sales. Here's a document of what you have on your farm. Assume that this is a day's production

Brookside Dairies has signed a contract with you to buy milk at Ksh.45 per litre for one year.:

Project Objectives

Your mission, if you choose to accept it is to automate the process of getting reports about your farm by:

- Writing a function that gives you a report on how much milk is produced per shed and the total amount of milk produced by all sheds.

  For example:

  ```

  ```

  ```
  totalProduction();
  ```

  Expected output:

  ```
  Your production in Shed A 510 litres per day

  Your production in Shed B 308 litres per day

  Your production in Shed C 486 litres per day

  Your production in Shed D 572 litres per day

  The total production is 1876 litres per day
  ```

- Writing a function that takes in the Brookside buying rate as one of its arguments, gives you a report on how much pay you'll receive over time. For instance, it can give a report on how much you will earn on a weekly basis or even on a yearly basis. For example;

The user calls the function;

```
incomeOverTime(selling_price, time);
```

Expected Output:

```
Your weekly income will be Ksh 590940
Your yearly income will be Ksh 30813300
```

- Create a report on how much you'll make each month in a leap year. (Hint: Consider using objects.)

For example, the output for this can be as follows;

```
Your income for January is 2617020
Your income for February is 2448180
Your income for March is 2617020
Your income for April is 2532600
Your income for May is 2617020
Your income for June is 2532600
Your income for July is 2617020
Your income for August is 2617020
Your income for September is 2532600
Your income for October is 2617020
Your income for November is 2532600
Your income for December is 2617020
```

You will be expected to submit this independent project by Monday 10 AM.

Happy Coding.

Weeks Objectives:

The project will be evaluated based on the following objectives:

1. The project uses one or more javascript functions.
2. Appropriate control flows and logical operators are used in the project.
3. The project makes use of one or more arrays in javascript.
4. The project uses an HTML input to collect user data.
5. The project uses a custom CSS stylesheet that incorporates cascading, box model and floats.
6. The project works as expected, achieving the functionality required.
7. The project demonstrates an understanding of the week's concepts. If requested, you should be able to explain your code to your instructor.

Further Exploration

Attempt this part of the assignment to strengthen your skills in JavaScript, it's optional but recommended:

Brookside Dairies decided to raise the rate at which they buy a litre from Ksh.45 to Ksh.49.60.

1. Write a function that gives you a report on the comparison of how much you'll make every month and the difference from the previous rate.

Dairy Business

Criteria	Ratings				Pts
The Project achieves the required objectives.	**4 Pts** **Full marks** The project achieves all the objectives given.	**2 Pts** **The project achieves half of the objectives given.**	**1 Pts** **The project achieves less than half of the objectives given.**	**0 Pts** **No marks** The project does NOT achieve ANY of the objectives given.	4 pts
This criterion is linked to a learning outcomeCode indentation and syntax	**3 Pts** **The project uses proper indentation & syntax.** The project code is consistently indented & the javascript code uses camelcase naming of variables. The variable names should also make sense.	**2 Pts** **The project implements fair code indentation & syntax.** The project code is fairly indented which means it not constanltly indented all-through but looks fairly neat and is fairly easy to read. The project JS code also uses camelcase & proper variable naming.		**1 Pts** **Improper indentation of code** The project code lacks consist indentation & does not implement camelcase and appropriate naming of variables.	3 pts
This criterion is linked to a learning outcomeThe project contains a properly documented README markdo	**3 Pts** **The project contains a properly documented README file.** The project contains a README markdown file in the Github repository that is well structured and detailed. The readme file contains the project name, project description, author, technologies used, dependencies, setup & installation instructions, contact & license information.	**2 Pts** **The project contains an averagely detailed README file** The project has a README file in the Github repository that is fairly detailed and contains most but not all features of a README file & contains 10 to the project.	**1 Pts** **The project contains default README file** The project contains the default README file that is generated by Github and has minimal details about the project.	**0 Pts** **The project does NOT contain a README file.**	3 pts
This criterion is linked to a learning outcomeUse of Version Control.	**3 Pts** **20+ commits** Project has more than 20 commits. Commits are feature based and with clear commit messages associated with them. For example, a commit message should read "navigation section complete, links clickable and redirecting to right pages".	**2 Pts** **10 - 20 Commits** The project contains 10 to 20 commits with clear commit messages associated with them.	**1 Pts** **No markLess than 10 commitss** The project contains less than 10 commits with clear commit messages associated with them.		3 pts
Deployment	**3 Pts** **Project is deployed to Github Pages & project description and live link are provided.** The project description and the link to the deployed site are present in the Github repository with the live link displaying the actual project.	**2 Pts** **Project description and link provided.** The project description and live link are provided on the Github repository but the live link does not display the actual project.	**1 Pts** **Project description or URL provided** The Github repository has only one of the elements, either the project description or the URL to the deployed site.	**0 Pts** **Project is not deployed to Github Pages.** The project is NOT deployed to github pages and neither the project description nor URL to live site are provided on the Github repository.	3 pts
					Total points: 16