

WEB 230

Assignment 1

Question 1 2 Marks

Write a program in Javascript to do the following:

- Prompt the user to ask for a single digit number.
 - You can assume the user will enter a valid value
- Write a for loop that will iterate from 1 to 100 inclusive.
- For each iteration, check to see if the current number is divisible by the number given by the user.
- If it is, display the number to the console.

Sample Output

Let's say the user enters 6:

6
12
18
24
...
96

The `prompt()` function will prompt the user to enter a number

The `Number()` function will cast the data received by prompt to a type of number

Your code should look like this:

```
let num = Number(prompt('Enter a number'));
```

Question 2 2 Marks

Using the same code you wrote for question 1. Modify it to check if the user entered a valid number.

- If the user does not enter a valid number, the loop should restart to prompt them to enter a new number

Helpful hints:

- You may want to use `.isNaN()` to check if the value entered is a number. I would start by looking up this function to check what return value you should be looking for
- You may want to put the prompt in a do while loop

Question 3 2 Marks

Write a program in Javascript to do the following you can **assume** that the user enters correct information:

- Prompt the user for their first name
 - Then, in a separate variable, prompt the user for their last name
- Prompt the user for their favorite food
- Display to the console their first name and last name on one line, and on the next line display their favorite food.
 - Do this using only one console.log function. See Example below.

```
let a = "Mathew";  
let b = "Haug";  
let c = "Pizza";  
  
console.log(a+ " "+b+"\n"+"Your favourite food is: "+c);
```

- /n denotes that you want your text on a new line
- The + is concatenating the different variables together.
- The Empty string is there to put a space between variables to make it human readable

Sample output

Mathew Haug
Your favourite food is: Pizza

Question 4 2 Marks

Complete this question using Javascript

- Prompt the user for a string of any word
 - Assume the correct input is given
- Lookup the `toUpperCase()` function and how to use it
- Display to screen the original string given, and then the modified string after `toUpperCase()` function has been run.

Sample Output

Why are we doing this

WHY ARE WE DOING THIS

Question 5 2 Marks

Complete this question using Javascript

Create a basic calculator

- Take in two numbers from the user
- Prompt the user for the operation they want to perform on the numbers (+, -, *, /, %, **)
 - This should be done in a switch.
- Ask the user if they would like to perform another calculation. If so, have the loop start over. If not, end the program.

Sample output

Hi. Please select a number: 8

Please Select a second number: 5

What operation would you like to perform? Please select one of the following: (+, -, *, /, %, **): *

The result is: 40

Would you like to perform another calculation? (y/n): n

Bye!

Submission Instructions

- Include a comment at the beginning of the JavaScript file that includes your name, student number, assignment name, and the date.
- Use camelCase for variable names
- Do not use the var keyword. Instead use let or const.
- Do not use document.write()
- Save your code to one file called as1.js
- Submit the JS code text only using the submission link.
Do not submit HTML or Screenshot of the code