Lab 10 – Javascript Functions with Conditionals
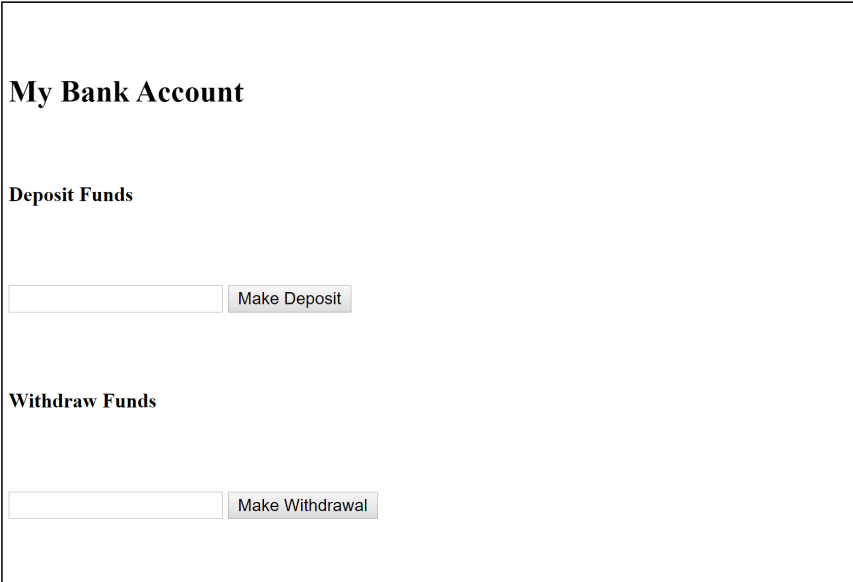
Objectives

- Creating applications that use Javascript functions with conditionals
- Using global variables

What to do in Lab?

1. Log in to the computer. If you are reading this, you must have done this already.
2. Create CPSC1045\Lab10 folder
3. Download the file Lab10.zip from D2L to your system. Unzip the contents into your Lab10 folder.
4. Open the included HTML document named **lab10.html** in Google Chrome by either double clicking (if Chrome is the default browser) or by right clicking on it in your file explorer and then selecting Open With -> Google Chrome. The document looks as follows:

Lab 10 – Writing Javascript Functions that use Conditionals

My Bank Account

Deposit Funds

[_____] [Make Deposit]

Withdraw Funds

[_____] [Make Withdrawal]

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5. Now open the **lab10.html** file using your favorite HTML editor such as Brackets or VS Code, so that you can edit the code. You will need to create a JS file named **lab10.js** in which you can write your functions and link it to **lab10.html**.

Part 1 (5 marks)

6. Write a function named `makeDeposit()` that takes the underlined amount from the box below **Deposit Funds** and passes it to another function named `deposit()`. It then calls the function `display()` which displays the balance within the element with the id "display". The `deposit()` function does the following:

- If the deposited <u>amount</u> is zero, negative, or not a number, the function displays the message "Invalid amount." within the element with id "message".
- Otherwise, the function adds the <u>amount</u> to the <u>balance</u> and displays the message " Your balance is: <u>balance</u>" within the element with id "message".

Part 2 (5 marks)

7. Write a function named **makeWithdrawal()** that takes the <u>amount</u> from the box below **Withdraw Funds** and passes it to another function named **withdraw()**. It then calls the function **display()** which displays the <u>balance</u> within the element with the id "display". The **withdraw()** function does the following:
   - If the withdrawal <u>amount</u> is zero, negative, or not a number, the function displays the message "Invalid amount." within the element with id "message".
   - Otherwise, if the withdrawal <u>amount</u> is greater than the balance, the function displays the message "Insufficient funds." within the element with id "message".
   - Otherwise, the function subtracts the <u>amount</u> from the balance and displays the message "Your balance is: <u>balance</u>" within the element with id "message".

   Hint: You can use the **isNaN()** function to check whether the amount is a number or not.

   The finished document should look as follows:

Lab 10 – Writing Javascript Functions that use Conditionals

My Bank Account

100

Deposit Funds

| 100 | Make Deposit |

Withdraw Funds

| 125 | Make Withdrawal |

Insufficient funds.

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Submission: What to hand in

Zip the folder Lab10 which contains your source code (the edited file **lab10.html** and the **lab10.js** file you created) and upload it to D2L.

Submission: When to hand in

At the end of the lab period.