

Lab 7-2

The 7.2nd lab is to create a web application using JavaScript (object **Date**, **try-catch**, **RegExp**), ask the user to enter an amount in CAD dollars representing the price of certain product to buy.

Use **try-catch**, validate the entry that is **not empty**, it is **not a number** (type = text), and it is not less than **3 dollars** and not more than **230 dollars**. Display appropriate messages.

The first screenshot shows the message "Input is empty" when the input field is blank. The second screenshot shows the message "Input is not a number" when the input is "abc". The third screenshot shows the message "Input is to low (3-230)" when the input is "2". Each screenshot includes a "Today Date: Wed Jun 28 2023" header, an input field, a "Display Amount" button, and an "OK" button.

Use **RegExp**, to validate if the value entry has 1 to 3 digits and the possibility to have none, one or two decimals. Display appropriate message.

The first screenshot shows the message "Input is not 1-3 digits with one or two decimals" when the input is "2345". The second screenshot shows the message "Accepted value 100 (3-230)" when the input is "100". Both screenshots include a "Today Date: Wed Jun 28 2023" header, an input field, a "Display Amount" button, and an "OK" button.

Testing more than 3 digits (RegExp)

Accepted value 100 (3-230)

Create(use) a function to calculate and display the image and the number of banknotes and/or coins that will represent the total, start with the biggest one (100). Check the provided file(s)

The screenshot shows a form titled "Calculate banknotes and coins" with a button "Calculate banknotes and coins". Below the button, it displays "The total amount in CAD dollars: 114.97". The form is divided into two columns. The left column shows the breakdown of banknotes: "100 dollars bills: 1 Amount: \$100", "50 dollars bills: Amount:", and "20 dollars bills: Amount:". The right column shows the breakdown of coins: "Toonie: Amount:", "Loonies: Amount:", "Quarters: Amount:", and "Dimes: Amount:". The form also includes images of a 100 Canadian dollar bill and a 10 Canadian dollar bill.

The screenshot shows a table with the following data:



The total amount in CAD dollars: 114.97	
100 dollars bills: 1 Amount: \$100	Toonie: 2 Amount: \$4
50 dollars bills: 0 Amount: \$0	Loonies: 0 Amount: \$0
20 dollars bills: 0 Amount: \$0	Quarters: 3 Amount: 0.75\$
10 dollars bills: 1 Amount: \$10	Dimes: 2 Amount: 0.2\$
5 dollars bills: 0 Amount: \$0	Nickels: 0 Amount: 0\$

The table also includes images of a 100 Canadian dollar bill, a 10 Canadian dollar bill, a Toonie coin, a Loonie coin, a Quarter coin, and a Dime coin.

Accepted value 100 + sales taxes = 114.97

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```
function displayMoney(getAmount) {  
    var amount = getAmount ;  
  
    //alert("100$= "+amount);  
    var    val100 = parseInt(amount/100) ;  
    if (val100>0){document.getElementById("bn100").src = "img/100$.jpg";}  
    document.getElementById("hun").innerHTML = Math.floor(val100);  
    document.getElementById("totalHun").innerHTML = ("") + (Math.floor(val100)*100);  
  
    var    amount = (amount - val100*100).toFixed(2);  
  
    //alert("50$="+amount);
```



This is the JS code that is displaying 100\$ bill. Apply the same logic for all other images to have the better representation of the total amount.

Integrate this Lab 7.2 into your site web (create a link into menu section), test and validate it on w3c, then upload all your web files (compressed with zip) on LEA of Omnivox.

Thank you.