Week1 - Javascript

Note: After completing each task, save your changes in **scripts.js** and refresh your web page in your browser to see the updates. The changes might not be immediately reflected, so try to finish other tasks and check back later to see the differences.

- 1. Open **scripts.js** file in an IDE.
- 2. Locate the **task1** comment and complete it.

```
This initializes the variable 'transactions' as an empty array.
```

```
// task1: Complete the below statement to initialize the variable 'transactions' as an empty array.
let transactions = [];
```

Locate the task2 comment and complete it.

```
This retrieves 'payee', 'amount', and 'reason' values from form inputs using `document.getElementById()`.
```

```
// task2: Retrieve 'payee', 'amount', and 'reason' values from form inputs using document.getElementById().

// Replace '' with code to access 'payee' input value from HTML document
const payee = document.getElementById('payee').value;

// Replace '' with code to access 'amount' input value from HTML document and convert it to float
const amount = parseFloat(document.getElementById('amount').value);

// Replace '' with code to access 'reason' input value from HTML document
const reason = document.getElementById('reason').value;
```

4. Locate the task3 comment and complete it.

```
This completes the 'newTransaction' object with 'id', 'payee', 'amount', and 'reason' properties.
```

```
// task3: Complete the 'newTransaction' object by replacing the placeholder values with appropriate data.
const newTransaction = {
   id: id,
    payee: payee,
    amount: amount,
    reason: reason
};
```

5. Locate the task4 comment and complete it.

```
This adds the 'newTransaction' object into the 'transactions' array using the 'push' method.
```

```
// task4: Complete the below statement to add the 'newTransaction' object into the 'transactions' array using the 'push' method.
transactions.push(newTransaction);
```

6. Locate the task5 comment and complete it. This finds the transaction object in the 'transactions' array that matches the provided 'id' parameter.

```
function updateTransaction(id, payee, amount, reason) {
    // task5: Complete the below statement to find the transaction object in the 'transactions' array that matches the provided 'id'
    const transaction = transactions.find(tran => tran.id === id);;

if (transaction) {
    transaction.payee = payee;
    transaction.amount = amount;
    transaction.reason = reason;
}
```

Locate the task6 comment and complete it.
 This removes a transaction from the 'transactions' array by the

index value.

```
async function deleteTransaction(id) {
   const index = transactions.findIndex(t => t.id === id);

   if (index !== -1) {
        // task6: Complete the below statement to remove a transaction from the 'transactions' array by the index value transactions.splice(index, 1);

        updateTransactionTable();
        await updateTotalTransactionAmount();
   }
}
```

Enhanced Task

- 8. Convert 'updateTotalTransactionAmount' to use async/await
 - Locate the **updateTotalTransactionAmount** function and convert it into an **async** function.
 - Look through all the script code and see where updateTotalTransactionAmount is called. Convert those calls to use await and ensure the calling function is marked as async.

```
// task7: Convert below function 'updateTotalTransactionAmount' to use async/await.
/*
a. Convert the 'updateTotalTransactionAmount' function to an async function.
b. Update all occurrences of 'updateTotalTransactionAmount' across the script to use await and ensure their calling functions are mark
*/
async function updateTotalTransactionAmount() {
    let totalAmount = 0:
        transaction(method) Document.getElementById(elementId: string): HTMLElement | null
        total
        Returns a reference to the first object with the specified value of the ID attribute.
});
    @param elementId — String that specifies the ID value.
document.getElementById('totalTransactionAmount').textContent = totalAmount.toFixed(2);
}
```

Transaction	n Manag	gement	t System				
Transaction ID:		ID	Payee	Amount	Reason	Edit	Delete
Payee:		1	Aditya	500.00	Milk	Edit	Delete
1 4900.		2	Ram	2000.00	Credit Card	Edit	Delete
Amount:	_						
Reason:							
Add Transaction							
Total Transaction Amount: 2500.00							