

```
package expenseandincome_tracker_with_database;
```

```
import java.util.List;
```

```
/**
```

```
 *
```

```
 * @author 1BestCsharp
```

```
 */
```

```
// Class to calculate various transaction values
```

```
public class TransactionValuesCalculation {
```

```
    // Method to calculate the total incomes from a list of transactions
```

```
    public static Double getTotalIncomes(List<Transaction> transactions){
```

```
        // Initialize the total income variable
```

```
        double totalIncome = 0.0;
```

```
        // Loop through each transaction in the list
```

```
        for(Transaction transaction : transactions){
```

```
            // Check if the transaction type is "Income"
```

```
            if("Income".equals(transaction.getType())){
```

```
                // Add the transaction amount to the total income
```

```
                totalIncome += transaction.getAmount();
```

```
            }
```

```
        }
```

```
        // Return the calculated total income
```

```
        return totalIncome;
```

```
    }
```

```
    // Method to calculate the total expenses from a list of transactions
```

```

public static Double getTotalExpenses(List<Transaction> transactions){
    // Initialize the total Expense variable
    double totalExpenses = 0.0;
    // Loop through each transaction in the list
    for(Transaction transaction : transactions){
        // Check if the transaction type is "Expense"
        if("Expense".equals(transaction.getType())){
            // Add the transaction amount to the total Expense
            totalExpenses += transaction.getAmount();
        }
    }

    // Return the calculated total Expense
    return totalExpenses;
}

// Method to calculate the total value (income - expenses) from a list of transactions
public static Double getTotalValue(List<Transaction> transactions){
    // Calculate the total income using the getTotalIncomes method
    Double totalIncome = getTotalIncomes(transactions);
    // Calculate the total expense using the getTotalExpenses method
    Double totalExpense = getTotalExpenses(transactions);
    // Return the calculated total value (income - expenses)
    return totalIncome - totalExpense;
}

}

```