Solution: Build a Calculator Application

This lesson provides a solution to the challenge given in the previous lesson.

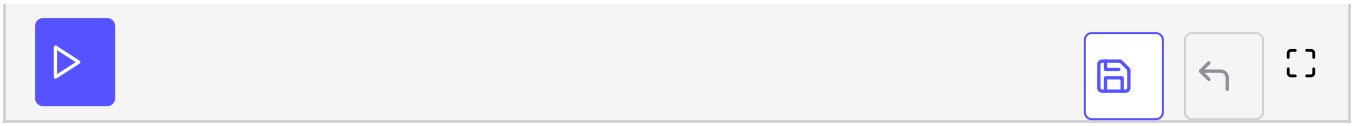
WE'LL COVER THE FOLLOWING

Solution

Here is the program that will perform functionalities of a calculator.

```
import std.stdio;
import std.string;

void main() {

    string operation = "add";

    double first=8;
    double second=4;


    double result;

    final switch (operation) {

    case "add":
        result = first + second;
        break;

    case "subtract":
        result = first - second;
        break;

    case "multiply":
        result = first * second;
        break;

    case "divide":
        result = first / second;
        break;
    }
```

```
    writeln(result);
}
```



Calculator

Solution explanation

- **In line 14:**

  ```
  final switch (operation) {
  ```

  Since we have the user's input stored in the `operation` variable, we are using the `final switch` statement to figure out the operation the user asked the program to perform.

- **In line 16:**

  ```
  case "add":
  ```

  Based on the user's input, we are comparing the value in the `operation` variable with `add`, if it's a match then the program will perform the add operation. Otherwise, the program will move on to the next `case` statement.
  Similarly, the program will check the other `case` statements.

- **In line 33:**

  ```
  writeln(result);
  ```

  Here, we are simply displaying the result of the operation on the console.

In the next lesson, you will find a quiz based on the concepts covered in this chapter.