

# ■ Dart Simple Calculator – Step-by-Step Manual

This manual explains how a simple Dart calculator program works, line by line. It is designed for beginners who are learning how to read, understand, and modify Dart code.

## 1■■ Program Entry Point: `main()`

Every Dart program starts executing from the **`main()`** function. This is the entry point of every Dart program.

```
void main() { // Your code starts here }
```

## 2■■ Declare Variables

Variables store values that your program can use. The **`double`** type allows decimal numbers. You can change these values anytime to test different results.

```
double num1 = 10; double num2 = 5;
```

➡■ **`num1`** and **`num2`** are the inputs for the calculator.

## 3■■ Do the Calculations

Perform arithmetic operations and store the results in new variables. Each operator performs a specific function.

```
double sum = num1 + num2; // addition double difference = num1 - num2;
// subtraction double product = num1 * num2; // multiplication double
quotient = num1 / num2; // division
```

Operator	Meaning
+	Addition
-	Subtraction
*	Multiplication
/	Division

## 4■■ Print the Inputs

Use **`print()`** to show text or variable values in the console. The **`$variable`** syntax allows you to insert variable values inside text.

```
print('Number 1: $num1'); print('Number 2: $num2');
```

## 5■■ Add a Separator

This line prints a simple separator for better readability of your program output.

```
print('-----');
```

## 6■■ Print the Results

Display the computed values with clear labels so the user knows what each result means.

```
print('Addition: $sum'); print('Subtraction: $difference');  
print('Multiplication: $product'); print('Division: $quotient');
```

## ■ Example Output

```
Number 1: 10.0 Number 2: 5.0 ----- Addition: 15.0  
Subtraction: 5.0 Multiplication: 50.0 Division: 2.0
```

## ■ Key Ideas Recap

**main()** is the starting point of every Dart program. **Variables** store data that can be reused. **Operators** perform arithmetic operations. **print()** displays text and variable values. **String interpolation** (e.g., 'Value: \$variable') allows easy output formatting.

■ This concludes the Dart Simple Calculator Manual — ideal for beginners learning basic programming concepts.