aPex calculator

You are asked to:

* ✅ Use Salesforce (a cloud CRM platform)
* ✅ Create a custom application inside it
* ✅ Write and demonstrate Apex code (Salesforce's own programming language) to perform simple calculator operations like add, subtract, multiply, and divide

**What Is Salesforce?**

🔹 Salesforce is a cloud-based Customer Relationship Management (CRM) platform.  
🔹 It helps businesses manage leads, customers, sales, and services all in one place.  
🔹 It’s highly customizable using built-in tools and code (like Apex).  
🔹 Companies use Salesforce to automate workflows, store customer data, and build apps — all in the cloud.

**What Is Apex?**

🔹 Apex is a programming language developed by Salesforce.  
🔹 It’s similar to Java and is used to write custom logic on the Salesforce platform.

In short :

Step 1: Created a Free Salesforce Developer Account to get access to the full Salesforce platform for development and testing

**Step2: Opened the Developer Console, Salesforce's built-in code editor to write and run Apex code**

**Step3:** **Wrote a Custom Apex Class Created a class called SimpleCalculator**

**It included four methods (add, subtract, multiply, divide) using a switch statement**

**Division method handles divide-by-zero safely**

**Step4:** ** Used Execute Anonymous Window to run test inputs like 20 + 5, 20 / 5**

** Viewed outputs using System.debug in logs**

**this showed my calculator logic works inside Salesforce using Apex.**

What you're doing:  
Creating a free developer edition of Salesforce to access Apex coding tools.

Why:  
Salesforce doesn't allow Apex coding in a regular user account — you need a Developer org.

How:

1. Log into your Developer Org from: <https://login.salesforce.com/>

YOU now have a personal Salesforce playground to build and test apps.

step 2: Open Developer Console in Salesforce  
we are Accessing the place where you write and run Apex code.

Why:  
The Developer Console is the coding environment inside Salesforce.

Step3: Click setup-🡪 “Developer Console”.--> Writing a class in Apex that performs arithmetic operations.

Step4:Click File → New → Apex Class

Name it: CalculatorClass

Paste the following code and saveall:

public class SimpleCalculator {

public static Double calculate(Double num1, Double num2, String operator) {

Double result;

switch on operator {

when '+' {

result = num1 + num2;

}

when '-' {

result = num1 - num2;

}

when '\*' {

result = num1 \* num2;

}

when '/' {

if (num2 != 0) {

result = num1 / num2;

} else {

System.debug('Error: Division by zero');

return null;

}

}

when else {

System.debug('Invalid operator. Use +, -, \*, or /.');

return null;

}

}

return result;

}

}

Now we Using Apex’s “Execute Anonymous” window to run and test your code. to show that the calculator works — this is how you simulate calling Apex functions.

 In Developer Console → Debug → Open Execute Anonymous Window

 Paste this code and check “Open Log”:

Double n1 = 20;

Double n2 = 5;

System.debug('Addition: ' + SimpleCalculator.calculate(n1, n2, '+'));

System.debug('Subtraction: ' + SimpleCalculator.calculate(n1, n2, '-'));

System.debug('Multiplication: ' + SimpleCalculator.calculate(n1, n2, '\*'));

System.debug('Division: ' + SimpleCalculator.calculate(n1, n2, '/'));

Openlog-execute-debug only

You get the output