

computer programming

Basic calculator using c programming



24Bca10514

Tshering wangdi

24bca-3a

#include <stdio.h>

int main() {

char operator;

double num1, num2, result;

// Ask user for the operation

printf("Enter an operator (+, -, \*, /): ");

scanf(" %c", &operator);

// Ask user for two numbers

printf("Enter two numbers: ");

scanf("%lf %lf", &num1, &num2);

// Perform calculation based on the operator

switch (operator) {

case '+':

result = num1 + num2;

printf("%.2lf + %.2lf = %.2lf\n", num1, num2, result);

break;

case '-':

result = num1 - num2;

printf("%.2lf - %.2lf = %.2lf\n", num1, num2, result);

break;

case '\*':

result = num1 \* num2;

printf("%.2lf \* %.2lf = %.2lf\n", num1, num2, result);

break;

case '/':

if (num2 != 0)

result = num1 / num2;

else {

printf("Error: Division by zero is not allowed.\n");

return 1;

}

printf("%.2lf / %.2lf = %.2lf\n", num1, num2, result);

break;

default:

printf("Error: Invalid operator.\n");

return 1;

}

return 0;

}

Addition output

Enter an operator (+, -, \*, /): +

Enter two numbers: 5 3

5.00 + 3.00 = 8.00

Multiplication output

Enter an operator (+, -, \*, /): \*

Enter two numbers: 5 3

5.00 \* 3.00 = 15.00

Subtraction output

Enter an operator (+, -, \*, /): -

Enter two numbers: 5 3

5.00 - 3.00 = 2.00

Division output

Enter an operator (+, -, \*, /): /

Enter two numbers: 6 3

6.00 / 3.00 = 2.00

Thank you