**Task 1**

Develop a calculator program that performs basic arithmetic operations such as addition, subtraction, multiplication, and division. Allow the user to input two numbers and choose an operation to perform.

CODE:

#include <iostream>

using namespace std;

int main() {

double num1, num2, result;

char operation;

cout << "Welcome to the Basic Calculator Program!" << endl;

cout << "Enter the first number: ";

cin >> num1;

cout << "Enter the second number: ";

cin >> num2;

cout << "Choose an operation (+, -, \*, /): ";

cin >> operation;

switch (operation) {

case '+':

result = num1 + num2;

cout << "The result is: " << result << endl;

break;

case '-':

result = num1 - num2;

cout << "The result is: " << result << endl;

break;

case '\*':

result = num1 \* num2;

cout << "The result is: " << result << endl;

break;

case '/':

if (num2 != 0) {

result = num1 / num2;

cout << "The result is: " << result << endl;

} else {

cout << "Error: Division by zero is not allowed." << endl;

}

break;

default:

cout << "Error: Invalid operation." << endl;

}

cout << "Thank you for using the calculator. Goodbye!" << endl;

return 0;

}

OUPUT:

Welcome to the Basic Calculator Program!

Enter the first number: 34

Enter the second number: 32

Choose an operation (+, -, \*, /):+

The result is:66

Thank you for using the calculator. Goodbye!