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SAP   72581

Programing fundamental

```cpp
#include <iostream>
#include <math>
using namespace std;

double add(double a, double b);
double substract(double a, double b);
double multiply(double a, double b);
double divide(double a, double b);
double power(double a, double b);

int main () {
    double num 1, num 2;
    char choice.
    cout << "Enter first number: ";
    cin >> num 1;
    cout << "Enter second number: ";
    cin >> num 2;

    cout << "In Select operetion:\n";
    cout << + Addition\n";
    cout << "- Substraction\n";
    cout << "* Multiplication\n";
    cout << "/ Division \n".
    cout << "P Power \n";
```

```cpp
cout << "Enter    your    choice";
cin >> choice;

switch (choice) {
case '+':
    cout << "Result:" << add (num 1, num 2);
    break;
case '-':
    cout << "Result:" << substract (num 1, num 2);
    break;
case '*':
    cout << "Result =" << multiply (num1, num 2);
    break;
case '/':
    if (num 2 == 0)
        cout << "Error ! Division by zero
is not allowed.";
    else
        cout << "Result = " << divide (num1, num2);
    break;
case 'p':
    cout << "Result=" << power (num 1, num2);
    break;
default:
    cout << "Invalid choice";

}
return 0;

}
```

```
double add (double a, doubleb) {
    return a+b;
}
double substract (double a, double b) {
    return a - b;
}
double multiply (double a, double b) {
    return a *b;
}
double divide (double a, double b) {
    return a / b;
}
double power (double a, doubleb) {
    return power (a, b);
}
```