

```
#include <stdio.h>
#include <math.h>

int main() {
    int op;
    double a, b;

    // Read the operation
    scanf("%d", &op);
    // Scan the first input
    scanf("%lf", &a);
    // Scan a second input only if operation is binary
    if (op >= 1 && op <= 5)
        scanf("%lf", &b);
    else if (op <= 0 || op > 8)
        printf("Invalid Operation");

    switch(op){
        case 1: printf("%.4lf", a + b); break;
        case 2: printf("%.4lf", a - b); break;
        case 3: printf("%.4lf", a * b); break;
        case 4: printf("%.4lf", a / b); break;
        case 5: printf("%.4lf", pow(a, b)); break;
        case 6: printf("%.4lf", sin(a)); break;
        case 7: printf("%.4lf", cos(a)); break;
        case 8: printf("%.4lf", fabs(a)); break;
    }
    return 0;
}
```