Simple Calculator

(Source Code)  
  
  
  
#include <stdio.h>

#include <math.h>

int main() {

int options;

double a,b,result;

printf("Simple Calculator Program\n");

printf("Choose an operation:\n");

printf("1. Addition (+)\n");

printf("2. Subtraction (-)\n");

printf("3. Multiplication (\*)\n");

printf("4. Division (/)\n");

printf("5. Power (^)\n");

printf("6. Square Root (sqrt)\n");

printf("7. Sine (sin)\n");

printf("8. Cosine (cos)\n");

printf("9. Tangent (tan)\n");

printf("Enter the operation you want to perform : ");

scanf("%d", &options);

switch(options) {

case 1:

printf("Enter two numbers: ");

scanf("%lf %lf", &a, &b);

result = a + b;

printf("Result: %.2lf\n", result);

break;

case 2:

printf("Enter two numbers: ");

scanf("%lf %lf", &a, &b);

result = a - b;

printf("Result: %.2lf\n", result);

break;

case 3:

printf("Enter two numbers: ");

scanf("%lf %lf", &a, &b);

result = a \* b;

printf("Result: %.2lf\n", result);

break;

case 4:

printf("Enter two numbers: ");

scanf("%lf %lf", &a, &b);

if (b != 0) {

result = a / b;

printf("Result: %.2lf\n", result);

} else {

printf("Not defined!\n");

}

break;

case 5:

printf("Enter base and exponent: ");

scanf("%lf %lf", &a, &b);

result = pow(a, b);

printf("Result: %.2lf\n", result);

break;

case 6:

printf("Enter a number: ");

scanf("%lf", &a);

if (a >= 0) {

result = sqrt(a);

printf("Result: %.2lf\n", result);

} else {

printf("Imaginary number!\n");

}

break;

case 7:

printf("Enter angle in radians: ");

scanf("%lf", &a);

result = sin(a);

printf("Result: %.2lf\n", result);

break;

case 8:

printf("Enter angle in radians: ");

scanf("%lf", &a);

result = cos(a);

printf("Result: %.2lf\n", result);

break;

case 9:

printf("Enter angle in radians: ");

scanf("%lf", &a);

result = tan(a);

printf("Result: %.2lf\n", result);

break;

default:

printf("Invalid operation choice!\n");

}

return 0;

}

Link to the Compiler: <https://onlinegdb.com/pvx0ks5qw>