//24 calculator

#include <stdio.h>

void plus(float a, float b);

void minus(float a, float b);

void multiply(float a, float b);

void divide(float a, float b);

void mod(int a, int b);

void display(float a, float b, char operation, float result);

int main()

{

int con, oper;

float a, b;

con = 1;

while(con == 1)

{

printf("choose opertor\n1.plus\n2.minus\n3.multiply\n4.divide\n5.mod\n");

scanf("%d", &oper);

printf("input first number : ");

scanf("%f", &a);

printf("input secound number : ");

scanf("%f", &b);

if(oper == 1)

{

plus(a, b);

}

else if(oper == 2)

{

minus(a, b);

}

else if(oper == 3)

{

multiply(a, b);

}

else if(oper == 4)

{

divide(a, b);

}

else if(oper == 5)

{

mod(a, b);

}

printf("continues ? (1 for continues) : ");

scanf("%d", &con);

}

}

void plus(float a, float b)

{

float result;

char ope = '+' ;

result = a + b;

display(a, b, ope, result);

}

void minus(float a, float b)

{

float result;

char ope = '-' ;

result = a - b;

display(a, b, ope, result);

}

void multiply(float a, float b)

{

float result;

char ope = '\*' ;

result = a \* b;

display(a, b, ope, result);

}

void divide(float a, float b)

{

float result;

char ope = '/' ;

if(b != 0)

{

result = a / b;

display(a, b, ope, result);

}

else

{

printf("Cannot divide by zero\n");

}

}

void mod(int a, int b)

{

float result;

char ope = '%' ;

if(b != 0)

{

result = (int)a % (int)b;

display(a, b, ope, result);

}

else

{

printf("Result is undefined\n");

}

}

void display(float a, float b, char operation, float result)

{

printf("%.2f %c %.2f = %.2f\n",a ,operation ,b ,result);

}