

//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);
}
```