```c
#include<stdio.h>
int sum(int a,int b);
int sub(int a,int b);
int mul(int a,int b);
int division(int a,int b);
int rem(int a,int b);
int main(){
  int num1,num2,result1,result2,result3,result4,result5;
  printf("enter the two numbers: ");
  scanf("%d%d",num1,num2);
  result1=sum(num1,num2);
  result2=sub(num1,num2);
  result3=mul(num1,num2);
  result4=division(num1,num2);
  result5=rem(num1,num2);
  printf("sum = %d\n",result1);
  printf("sub = %d\n",result2);
  printf("mul = %d\n",result3);
  printf("division = %d\n",result4);
  printf("rem = %d\n",result5);
}
int sum(int a, int b)
{
  return a+b;}
int sub(int a, int b) {
  return a-b;}
int mul(int a, int b) {
  return a*b;}
int division(int a, int b) {
 return a/b;}
int rem(int a, int b) {
  return a%b;}
```