how to do a C++ program ?

code :

```cpp
#include<algorithm>
#include<math.h>
#include<stdio.h>
//other headers goes here if necessary

using namespace std;     //for using C++ library, you must add this line
                         //immediately after including all the headers

//your user defined functions after the line - using namespace std

int add(int a, int b )
{
    printf("%d", a+b);
}

int main()               // always write int main not void main
{
    ...
    ...
    //your code
    ...
    ...

    return 0;            // write this line at the end of main in every
                         //program, not only for this one
}
```

how to use swap ?
open a new c++ project in codeblocks. you will see a line
using namespace std;
do not remove it. it tells the compiler you are using c++ library.
add the algorithm header and writh the code below.

code :

```cpp
#include<algorithm>              // for using swap
#include<stdio.h>               //for using printf and scanf

using namespace std;            //for using C++ library

int main()                      // always write int main not void main
{
    int a = 11, b = 22;
    swap(a, b);
    printf("%d %d", a, b);

    return 0;            // write this line at the end of main in every
                         //program, not only for this one
}
```

run the code and see the change.

how to use sort ?

```cpp
#include <algorithm>
#include <stdio.h>
```

```cpp
using namespace std;

int main()
{
    int list[5] = {5, 4, 3, 2, 1};

    //test its elements sequence

    int i;

    for(i = 0; i < 5; i++)
        printf( " %d " , a[i] );

    printf( "\n after sorting \n" ) ;

    //the size of list array is 5. it means it has total 5 elements.
    //but the counting starts from index     0 to index 4.

    // use the array name which is list , and its size which is 5 to
    //sort the array.

    sort ( list , list + 5 );

    //test its elements sequence

    for(i = 0; i < 5; i++)
        printf( " %d " , a[i] ) ;

    return 0;
}
```

how to use max and min ?

```cpp
#include <algorithm>
#include <stdio.h>

using namespace std;

int main()
{
    printf( " max value between 10 and 20 is %d \n" , max(10, 20) );

    //apply over variables

    int a = 11, b = 22;

    printf( " max value between a and b is %d \n" , max(a, b) );

    //saving the max value

    int v = max(a, b);

    printf(" max value of a and b is %d " , v);

    return 0;
}
```