

Advantages and Disadvantages of Decomposition

You have to really understand the problem you're trying to solve to be able to decompose it properly. Otherwise you'll end up writing code you don't need.

Teams have to work together really effectively when they are working on their own sections of a program. Otherwise the parts won't fit together properly.

I find that using decomposition means that my programs often end up being shorter on the whole.

I can break the problem I have to solve into smaller chunks and deal with them one at a time. This makes it much easier to deal with a complex problem.

The sections of a program are sometimes called subroutines or functions

Decomposition is when I break up a program into small sections.

If I write a function I can test it really well to make sure it always gives me the right result. It's much simpler to test small sections of code than a long program

Different people can code the sections of decomposed program at the same time. This makes writing a complex program quicker as the jobs can be divided up more easily

Once I have a useful function written I can probably reuse it in lots of different projects. This saves me loads of work

If subroutines or functions have been documented well it makes maintaining program in the future much easier as they are already in smaller chunks.

