

Task

Abstraction is about hiding the how. It shows only the main features. You use it to make things simple. It is like using a remote without knowing the electronics inside.

Encapsulation is about grouping. It puts data and code into one box. This box is called a class. It keeps your code organized in one package.

Data Hiding is about safety. It hides internal data from the outside. It stops people from changing things by mistake. It uses private settings to keep data secure.

In short, these three concepts work together to create good software. Abstraction simplifies your design. Encapsulation organizes your code. Data hiding protects your information.

Together, they make your programs easier to read, harder to break, and much safer to change.