Encapsulation is defined as placing data and actions associated with that data within a box called a class. It's similar to having a TV remote; you don't need to understand how it works on the inside; just hit the buttons.

The Advantage of Encapsulation: Encapsulation aids in the organization and security of our program. It's similar to having a password for your phone; it keeps your information safe and ensures that only the appropriate methods (buttons) may interact with your data.

Encapsulation in action: In our code, the 'Word' class acts as a box for each word. It protects the word's components (letters, hidden status) and allows us to update them only through defined techniques.

- \*\*Code Example: \*\*

```csharp

public class Word

{

public string FirstLetter { get; private set; }

public string RestOfWord { get; private set; }

public bool IsHidden { get; private set; }

public Word(string text)

{

// Inside we set up the word

// ...

}

public void RemoveWordAndLeaveFirstLetter()

{

RestOfWord = new string('\_', RestOfWord.Length);

IsHidden = true;

}

}

```

This example is similar to a word box in that it protects the term and only allows us to alter it in particular ways. Encapsulation, like having a box for each critical object, helps us keep things orderly and secure in our program.