

benefits of data encapsulation

- **protection of implementation (safety)** : clients cannot directly access encapsulated data
- **readability (understandability)** : clients of interface does not need to know any knowledge as to how the functions that describe the interface use encapsulated information
- **implementation independence** : A change in implementation should not affect the interface seen by the clients of a class. An encapsulated implementation provides the implementor freedom to change it without affecting the interface. i.e. how the clients use the interface is independent of the implementation