

FND20

An abstract data type is a data structure that is defined by its behavior. ADTs are useful because they can be used as templates for creating specific data types. ADTs can be reused in any number of programs. ADTs are great for creating templates for specific data structures or templates that can be used repeatedly across different programs. In other words, they can be templates of templates. ADTs allow programs to become independent of the abstract data type's representation. Meaning the representation could be enhanced without breaking the entire program. This allows different parts of a program to become more independent from other parts and how they are implemented. It allows for more efficient implementation. Some of my previous experiences with ADTs do not come from university. Nevertheless, they are with List ADT, Stack ADT, and Queue ADT