Generic Data Type

Generics

• Nature:

- Software components must be be-usable
- Be able to work on a variety of data types but not only restricted to one.

"Generic" Toolbox

• Enables user to create a re-usable software component.

Benefit

• User can make use of it to operate with their own type of data.

Generics

• Example-1:

• **Identity Function:** A function that returns the same argument which is passed to it preserving its data type.

Identity Function (Without generics)

function identity(arg: number): number {
return arg; }

Accepts and returns argument of type 'number' only.

Identity Function (With generics)

function identity<T>(arg: T): T {
return arg; }

Accepts and returns argument of any type. Hence is a generic function. (Software component)