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Generic Classes

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Generic Classes

- Generic class is a class, which contains one or more "type parameters".
 - You must pass any data type (standard data type / structure / class), while creating object for the generic class.
- **Advantages:**
 - The same field may belong to different data types, w.r.t. different objects of the same class.
 - You will decide the data type of the field, while creating the object, rather than while creating field in the class.
- The generic type parameter (T) acts as "temporary data type", which represents the actual data type, provided by the user, while creating object.
- You can have multiple "generic type parameters" in the same class (for use for different fields); this is called as "Co-variant generic type parameters".

Generic Class - Example

```
class ClassName<T>
{
    public T FieldName;
}
```

Object of Generic Class - Example

```
ClassName<int> referenceVariable = new ClassName<int> ( );
```