Generic Classes

What

- > 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.

How

```
class ClassName<T>
{
    public T FieldName;
    web University
```

```
Object of Generic Class - Example
```

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

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.
- > It helps you in code reuse, performance and type-safety.
- You can create your own generic-classes, generic-methods, generic-interfaces and generic-delegates.
- > You can create generic collection classes.
 - > The .NET framework class library contains many new generic collection classes in System.Collections.Generic namespace.



- 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.

 Generics are introduced in C# 2.0.