Lesson 35 - Generics Revision

Person.cs

```
namespace GenericsRev
{
    public class Person
    {
        public string Name { get; set; }
        public int Age { get; set; }
        public Professions Profession { get; set; }

        public Person(string name, int age, Professions prof)
        {
            Name = name;
            Age = age;
            Profession = prof;
        }

        override
        public string ToString()
            => $"NAME:{Name}\tAGE:{Age}\tPROFESSION:{Profession}";
    }

    public enum Professions
    {
        Barber, Teacher, Student, Military, Delivery, Politician
    }
}
```

Generic.cs

```
namespace GenericsRev
{
    public class Generic<T>
    {
        public static void Swap(ref T a, ref T b)
            => (a, b) = (b, a);

        public static void Printer(T a, T b)
```

```
            => Console.WriteLine($"A: {a}\tB: {b}");
    }
}
```

Program.cs

```
using GenericsRev;

//string a = "Talha";
//string b = "Amad";

//Person a = new("Talha", 22, Professions.Teacher);
//Person b = new("Amad", 25, Professions.Student);


//Generic<Person>.Printer(a, b);

//Generic<Person>.Swap(ref a, ref b);
//Generic<Person>.Printer(a, b);


//Stack<int> stack = new();

//List<Person> list = new();
//List<Person> listAdd = new()
//{
//    new("Talha", 22, Professions.Teacher),
//    new("Amad", 25, Professions.Student)
//};

//list.Add( new("Talha", 22, Professions.Teacher) );

//list.AddRange(listAdd);

//foreach (var person in list)
//    Console.WriteLine(person);

//Console.WriteLine(list.Count);


List<Person> a = new();
a.Add(new("Talha", 22, Professions.Teacher));
a.Add(new("Amad", 25, Professions.Student));

List<Person> b = new();
b.Add(new("Salman", 22, Professions.Teacher));
b.Add(new("Kazmi", 25, Professions.Student));

Generic<List<Person>>.Swap(ref a, ref b);
```

```
foreach (var item in a)
    Console.WriteLine(item);
```