**Part 46 - C# Tutorial - Enums Example**

**The program that we have started in Part 45 is now rewritten using Gender enum, which makes it more readable and maintainable.**  
  
  
[If you have not watched video on problems of not using enums, please click here to watch it now](http://csharp-video-tutorials.blogspot.com/2012/06/part-45-c-tutorial-why-enums.html)  
  
  
using System;  
public class Enums  
{  
    public static void Main()  
    {  
        Customer[] customers = new Customer[3];  
        customers[0] = new Customer()  
        {  
            Name = "Mark",  
            Gender = Gender.Male  
        };  
        customers[1] = new Customer()  
        {  
            Name = "Mary",  
            Gender = Gender.Female  
        };  
        customers[2] = new Customer()  
        {  
            Name = "Sam",  
            Gender = Gender.Unknown  
        };  
        foreach (Customer customer in customers)  
        {  
            Console.WriteLine("Name = {0} && Gender = {1}", customer.Name, GetGender(customer.Gender));  
        }  
    }  
  
  
    public static string GetGender(Gender gender)  
    {  
        // The swicth here is now more readable and maintainable because   
        // of replacing the integral numbers with Gender enum  
        switch (gender)  
        {  
            case Gender.Unknown:  
                return "Unknown";  
            case Gender.Male:  
                return "Male";  
            case Gender.Female:  
                return "Female";  
            default:  
                return "Invalid Data for Gender";  
        }  
    }  
}  
  
  
public enum Gender  
{  
    Unknown = 0,  
    Male = 1,  
    Female = 2  
}  
  
  
public class Customer  
{  
    public string Name { get; set; }  
    public Gender Gender { get; set; }  
}