

Extension method for integer

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using System;
```

```
static class MainClass {  
    public static int ConvertToBase(this int i, int  
    baseToConvertTo) {  
        if (baseToConvertTo < 2 || baseToConvertTo > 10)  
            throw new ArgumentException("Value cannot be converted to base  
            " + baseToConvertTo.ToString());  
        int result = 0;  
        int iterations = 0;  
        do {  
            int nextDigit = i % baseToConvertTo;  
            result += nextDigit * (int)Math.Pow(10, iterations);  
            iterations++;  
            i /= baseToConvertTo;  
        }  
        while (i != 0);  
        return result;  
    }  
    static void Main() {  
        try {  
            int x = 591;  
            for (int i = 2; i <= 10; i++) { Console.WriteLine("{0} in base  
            {1} is {2}", x, i, x.ConvertToBase(i)); } } catch (Exception  
            ex) { Console.WriteLine("Exception: {0}", ex.Message); } } }  
[/csharp]
```