Repetition (Iteration) in Visual C#.NET

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String Class

```
private string firstName = "Shania";
private string lastName = "Twain";
private string fullName;


fullName = firstName + " " + lastName;
```

String Literals

Escape Sequence	Character
\'	Single quotation mark
\"	Double quotation mark
\\	Backslash
\b	Backspace
\f	Form feed
\n	New line
\r	Carriage return
\t	Horizontal tab
\v	Vertical tab

Try..catch

```
try
{
    number = Convert.ToInt16(myTextBox.Text);
}
catch (Exception)
{
    throw; // Exception
    // Or Display Error Message
}
```

Code Snippits

Shortcut	Description
try	Creates a try..catch block
tryf	Creates a try..catch..finally block
If	Creates an if block
else	Creates an else block
class	Creates a class
while	Creates a while loop
do	Creates a do loop
for	Creates a for loop
Switch	Creates a switch block

String Functions

Contains (phrase)	bool	Looks for phrase in the string
IndexOf (phrase)	bool	The position of phrase
Equals (phrase)	bool	True if strings match
Insert (pos, phrase)	string	Insert phrase at position pos
Remove (pos)	string	Removes all chars after pos
Replace (old, new)	string	Replaces all old for new phrases
Substring (pos, size)	string	Returns a string from pos for size chars
Trim ()	String	Returns a string timed of all leading and trailing spaces

while loops (1)

```
while (condition == true)
{
  Statements;
}
```

while loop (2)

```
int count  = 0;

while(count < 10)
{
    count++
    Console.WriteLine("Count = {0}", count);
}
```

do loops

```
int count = 0;

do
{
    count++;
    Console.WriteLine("Count = {0}", count);

} while(count < 10)
```

for loop

```
for( int count =  0; count < 10; count++)
{
      Console.WriteLine("Count = {0}", count);
}
```

foreach loop

```
foreach( Sheep sheep in flock)
{
    sheep.Inoculate();
}
```

References

- ""Microsoft Visual C# Step by Step"
by John Sharp (2014)
Microsoft Press £19 (£14 Kindle)

- Chapter 5