Selection: The Switch/Case Statement

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| C# Instructions covered previously covered:   * **Variables:** <data type> <name>; * Console.WriteLine(“ “); * Console.ReadLine(); * **Operations:** +, -, \*, / * **Selection:** If | New C# Instructions used in these exercises:   * switch () * Case * Break |

# An example If Statement

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|  | **Annotation Area** |

1. Program the code above in Visual studio c#
2. Amend the program so that it asks the user to enter a number – test to make sure it works

## The Switch/Case Statement

The switch statement (sometimes called the case statement) is the second type of selection used in programming. It is similar to the IF statement in that programs can be split/branched depending on an input.

A switch statement uses a **variable** as an input and chooses **case** based on the input value. It is good practice to always have a **default** case as a form of validation so that the program does not crash.

NOTE: The pseudocode for a switch/case statement is exactly the same as the C# code

**Examples: The input variable can be either an integer or a string**

**Int** input = 0; **Str** input = “0”;

Console.Write("Please enter a selection: "); Console.Write("Please enter a selection: ");

input = **int.Parse(**Console.ReadLine()**)**; input = Console.ReadLine();

**Switch** (input) **Switch** (input)

{ {

**Case** 1: **Case** “1”:

Console.WriteLine("Selection = 1"); Console.WriteLine("Selection = 1");

**break; break;**

**Case** 2: **Case** “2”:

Console.WriteLine("Selection = 2"); Console.WriteLine("Selection = 2");

**break; break;**

**default**: **default**:

Console.WriteLine("Enter a valid option"); Console.WriteLine("Enter a valid option");

**break;**

} }

# Programming

You have been asked to create a program in visual studio that asks the user to enter a number between 1 and 5. When a number entered is between 1 and 5 the program should display “Thank you. <number> has been accepted.” A number outside this range should result in an appropriate error message being displayed.

* You should use a switch/case statement
* Use the examples to help you – you will need to add some additional cases.
* Use the space below to plan your solution
* Print screen your working code below

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# Self-Study Tasks (Programming)

Tick each box once you have completed a task to help keep organised

* Read class notes/hand out to make sure that you fully understand the content
* Complete any unfinished programming exercises
* Read/complete the following sections of the online tutorial: 
  + The switch Statement

<http://csharp.net-tutorials.com/basics/switch-statement/>

* Read/complete Seletion switch-case online tutorial

<https://msdn.microsoft.com/en-us/library/06tc147t.aspx>