# Exercises: Conditional Statements

This document defines in-class exercises from the ["Programming Basics" Course @ Software University](http://softuni.bg/courses/csharp-basics/).

## Biggest of three

Write a program that finds the **biggest number** from given 3 numbers. Print the result on the console.

*Hints:*

1. Declare ***three*** variables (*a*, *b*, *c*).
2. **Read** the user input from the console.
3. **Find** the **biggest** number by using conditional **if** statements.
4. **Print** the result on the console.

|  |  |  |  |
| --- | --- | --- | --- |
| **a** | **b** | **c** | **Max** |
| 45 | 41 | 20 | 45 |
| 22 | 52 | 60 | 60 |

## Sign of product

Write a program that **finds** the **sign** of the **product** of **three** real numbers. Use only **if** conditional statements.

*Hints:*

1. Declare ***four*** variables (*a*, *b*, *c* and *product*).
2. **Read** the user input from the console.
3. Use if statements to check the sign of the product.
   1. Check the sign of each number.
   2. If there are 1 or 3 negative numbers – the product is negative.
   3. If there are 0 or 2 negative numbers – the product is positive.
4. **Print** the result on the console.

|  |  |  |  |
| --- | --- | --- | --- |
| **a** | **b** | **c** | **Sign** |
| 5 | 2 | 4 | Positive |
| 8.5 | 4.4 | -2 | Negative |
| 2.7 | -0.1 | -9 | Positive |

## Number as Day of Week

Write a program that asks for a **digit** (1-7), and depending on the input, **shows** thecorresponding **day of week** as a **word** (in English). Print “not valid” in case of invalid inut. Use a **switch** statement.

*Hints:*

1. Declare one variable (*n*).
2. **Read** the user input from the console. (int.Parse(Console.ReadLine());).
3. Using a switch-case statement declare the possible values:
   1. Numbers in the range [1…7] are corresponding to the day of week. (E.g. 1 -> Monday).
   2. Other numbers or not valid inputs should be “not valid”.
4. **Print** the result on the console.

|  |  |
| --- | --- |
| **d** | **result** |
| 2 | Tuesday |
| 1 | Monday |
| 0 | not valid |
| 5 | Friday |
| -0.1 | not valid |
| hi | not valid |
| 7 | Sunday |
| 10 | not valid |