# Lab: Simple Conditional Statements

Submit your solutions here: <https://alpha.judge.softuni.org/contests/simple-conditional-statements-lab/4395>

## Freezing Weather

Write a program to **check for freezing water**, that:

* Reads **an integer number** (temperature in Celsius)
* Checks whether the temperature is **below zero**
* Prints "**Freezing weather!**", if the temperature is **equal or smaller than 0**

### Example

|  |  |
| --- | --- |
| **Input** | **Output** |
| 4 | *(no output)* |
| -2 | Freezing weather! |

## Even or Odd

Write a program, that:

* Reads an **integer number**
* Check the number
  + If it's **even**, prints "**even**"
  + If it's **odd**, prints "**odd**"

### Example

|  |  |
| --- | --- |
| **Input** | **Output** |
| 4 | even |
| 7 | odd |

## Number 1…9 as Words

Write a program to **print a number as words**, that:

* Reads an **integer number**
* Check number's value is in range **[1 … 9]**
* Print:
  + "**one**" – if the number is **1**
  + "**two**" – if the number is **2**
  + "**three**" – if the number is **3**
  + "**four**" – if the number is **4**
  + "**five**" – if the number is **5**
  + "**six**" – if the number is **6**
  + "**seven**" – if the number is **7**
  + "**eight**" – if the number is **8**
  + "**nine**" – if the number is **9**
  + "**Out of range**" - if the number is **out of range**

### Example

|  |  |
| --- | --- |
| **Input** | **Output** |
| 7 | seven |
| 10 | Out of range |
| 2 | two |

## Greater Number

Write a program, that:

* Reads **two integer numbers**
* Finds the **greater number**
* Prints "**Greater number: {greater number value}**"

### Example

|  |  |
| --- | --- |
| **Input** | **Output** |
| 5  8 | Greater number: 8 |
| 10  1 | Greater number: 10 |

## Guess the Password

Write a program for **checking a password**, that:

* Reads a **string** that represents a **password**
* Prints:
  + "**Welcome**" if the password is "**s3cr3t!**"
  + "**Wrong password!**" in all other cases

### Example

|  |  |
| --- | --- |
| **Input** | **Output** |
| s3cr3t! | Welcome |
| qwerty | Wrong password! |

## Boiling Water

Write a program to **check for boiling water**, that:

* + Reads an **integer** **number:** the water temperature (in °C)
  + Prints:
    - * "**The water is boiling**" if the **number > 100**
      * "**The water is not hot enough**" in all other cases

### Example

|  |  |
| --- | --- |
| **Input** | **Output** |
| 104 | The water is boiling |
| 29 | The water is not hot enough |

## Speed Info

Write a program that:

* Reads a **floating-point number (speed)**
* Prints:
  + "**Slow**" - if the **number <= 30**
  + "**Fast**" - if the **number > 30**

### Example

|  |  |
| --- | --- |
| **Input** | **Output** |
| 30 | Slow |
| 60.4 | Fast |

## Ticket Price

Write a program to **calculate ticket price**, that:

* Reads a **ticket type (string)**: either "**student**" or "**regular**"
* Prints the price in the following format **"${price}"**:
  + **Student** ticket price: **1.00**
  + **Regular** ticket price: **1.60**
  + For **invalid** type: "**Invalid ticket type!**"

### Example

|  |  |
| --- | --- |
| **Input** | **Output** |
| student | $1.00 |
| regular | $1.60 |
| adult | Invalid ticket type! |

## Valid Triangle

Write a program to **check whether a triangle is valid**, which:

* Reads **three integers**: the **sides** of a **triangle**
* Checks if each **side** is **shorter** than the **sum** of the **other two**
* Prints:
  + "**Valid Triangle**" if the above condition is met
  + "**Invalid Triangle**" otherwise

### Example

|  |  |
| --- | --- |
| **Input** | **Output** |
| 3  4  5 | Valid Triangle |
| 5  5  20 | Invalid Triangle |