

Lab: Simple Conditional Statements

Submit your solutions here: <https://judge.softuni.org/Contests/4395/Simple-Conditional-Statements-Lab>

1. 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!

2. 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

3. 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

4. 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

5. 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!

6. 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

7. 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

8. 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!

9. Area of Figures

Write a program to **calculate figure area**, that:

- Reads the **type of the figure** (string): "**square**", "**rectangle**" and "**circle**"
- Read:
 - If the figure is **square**: read **one floating-point number**, representing side of the square
 - If the figure is **rectangle**: read **two floating-point numbers**, representing **width** and **length** of the rectangle
 - If the figure is **circle**: read **one floating-point number**, representing **radius** of the circle
- Calculate area of the given figure
 - If the figure is square: **area = side * side**
 - If the figure is rectangle: **area = width * length**
 - If the figure is circle: **area = pi * radius * radius**
- Prints the **calculated area**, formatted to the 2nd decimal

Example

Input	Output
square 5	25.00
rectangle 5 4	20.00
circle 3	28.27

10. 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

11. Coffee Shop

Write a program to calculate the price for a drink, which:

- Reads a **drink name**: either "coffee" or "tea"
- Reads an **extra**: either "sugar" or "no"
- Prices are:
 - Coffee: **\$1.00**
 - Tea: **\$0.60**
 - Sugar: **\$0.40**
- Prints the price, formatted to the 2nd decimal: "Final price: \${price}"

Example

Input	Output
coffee sugar	Final price: \$1.40
tea no	Final price: \$0.60