

# Java module 1

## Exercises Day 1

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| 1 - Hello World | Create a new project and test the “println” function.      |
| Instructions    | Use “System.out.println” function to output “Hello World!” |
| Expected output | Hello World!   |

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| 2.1 - Variables and operations | Print the total salaries  |
| Instructions                   | <p>1 employee of the sales department gets 1000 dollars. There are 12 employees in the department.</p> <p>Write a program that displays the total salaries of all employees, with the note: "Amount of employee salaries:".</p> <p>Use a variable called “employeeSalary” to store the salary of one employee and another variable called “numberOfEmployees” to store the amount of employees.</p> |
| Expected output                | Amount of employee salaries: 12000  |

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| 2.2 - Variables and operations | Print the total amount allocated  |
| Instructions                   | <p>There is a request for the purchase of computers and components for them:</p> <ul style="list-style-type: none"><li>- 6 laptops for 55480 dollars each;</li><li>- 3 monitors for 21830 dollars each;</li><li>- 11 computer mice for 411 dollars each;</li><li>- 5 keyboards for 290 dollars each.</li></ul> <p>Calculate how much to allocate from the company's budget.</p> <p>Use 4 variables to store the prices of each of the components.</p> |
| Expected output                | Need to allocate: 404341  |

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| 2.3 - Variables and operations | Write a program that calculates storage capabilities  |
| Instructions                   | <p>The company has a 5,000 GB data storage.</p> <p>The company was handed over 20 files for placement. The volume of one file is 256 GB. Not all the data will fit in the storage. How many files</p> |

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|                 | <p>can we put in the storage? How much free space will be left?</p> <p>Write a program that does the computations.</p> |
| Expected output | <p>The storage will be able to fit 19 files</p> <p>136 GB will remain</p>  |

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| 3.1 - The input function | Print the total price of the trip  |
| Instructions             | <p>A program for a travel agency calculates the cost of staying at a hotel for the entered number of days. It should ask for the cost of one night at the hotel and for the total number of days</p> |
| Expected output          | <p>Enter the cost of one night at the hotel:</p> <p>&gt;&gt;&gt;2800</p> <p>Enter the number of days of the trip:</p> <p>&gt;&gt;&gt;5</p> <p>Price of the trip: 14000</p>                           |

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| 3.2 - The input function | Write a program that composes an automatic email to a client   |
| Instructions             | <p>Write a program for the sales department. The employees want to automatically send a promotional offer by email.</p> <p>The program should ask for:</p> <ul style="list-style-type: none"> <li>- the name of the client,</li> <li>- the number of previously purchased trips,</li> <li>- the proposed trip.</li> </ul> <p>The program should compose an automatic email from the answers. The text for the email is:</p> <p>Hello,</p> <p>You have traveled with us ... times already! Do you want to again?</p> <p>Our travel agency is having a sale. Trips to ... are 50% off!</p> |
| Expected output          | <p>Client name:</p> <p>&gt;&gt;&gt;Anna</p> <p>Number of package tours bought:</p> <p>&gt;&gt;&gt;4</p> <p>Destination offered:</p> <p>&gt;&gt;&gt;Hong Kong</p> <p>Hello Anna,</p> <p>You have traveled with us 4 times already! Do you want to again?</p> <p>Our travel agency is having a sale. Trips to Hong Kong are 50% off!</p>   |