**Tests**

**Task02.**

**Needed information**: *italic font* is to designate that certain data depends on date or to show empty line.

1. Create Hello class, that will greet any user after entering his surname

|  |  |  |  |
| --- | --- | --- | --- |
| № | What is being checked | name | output |
| 1 | Correct work | Alisa | Hello Alisa |
| 2 | Correct work | Anastacia | Hello Anastacia |
| 3 | Lack of input | *Empty line* | Hello |

1. Create an application, that displays arguments of the main () method from command line in reverse order in the console window.

|  |  |  |  |
| --- | --- | --- | --- |
| № | What is being checked | input | output |
| 1 | Correct work with integers | 1 2 3 4 5 | 5 4 3 2 1 |
| 2 | Correct work with strings | Sun Clouds Wind | Wind Clouds Sun |
| 3 | Correct work with strings | Sunny 22 years 2020 | 2020 years 22 Sunny |
| 4 | Lack of input | *Empty line* | *Empty line* |

1. Create an application, that displays a specified number of random numbers with and without transition to a new line.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| № | What is being checked | count | presenceOfNewLine | Output |
| 1 | Correct work with new line | 3 | 1 | 86  7  21 |
| 2 | Correct work without new line | 3 | 2 | 12 74 51 |
| 3 | If count is maximum allowable value of Short | 32767 | 1 | *Numbers []*  Process finished with exit code 0 |
| 4 | If count is more that maximum allowable value of Short | 32768 | 1 | Exception: Value out of range |
| 5 | If count of numbers is 0 | 0 | 2 | *Empty line*  Process finished with exit code 0 |
| 6 | If count is minimum allowable value of Short | -32768 | 1 | *Empty line*  Process finished with exit code 0 |
| 7 | If count is less than minimum allowable value of Short | -32769 | 2 | Exception: Value out of range |

1. Create an application for entering a password from the command line and comparing it with the string sample

|  |  |  |  |
| --- | --- | --- | --- |
| № | What is being checked | password | output |
| 1 | Case sensitivity | Password | Different passwords |
| 2 | Correct work | password | Matches |
| 3 | With numbers in string | pass123 | Different passwords |
| 4 | With numbers in string | 123 | Different passwords |
| 5 | Lack of input | *Empty line* | The field is empty, enter your password |

1. Create a program for entering integers as command line arguments, calculating their sum and outputting the result to the console.

|  |  |  |  |
| --- | --- | --- | --- |
| № | What is being checked | input | output |
| 1 | Correct work | 1 2 3 | Sum: 6 |
| 2 | Work with  negative and positive numbers | -1 0 1 | Sum: 0 |
| 3 | If the sum will be  maximum allowable value (to Short) | 32760 6 1 | Sum: 32767 |
| 4 | If the sum will be more than  maximum allowable value (to Short) | 32760 6 2 | Sum exceeds the norm |
| 5 | If the sum will be  minimum allowable value (to Short) | -32760 -6 -2 | Sum: -327768 |
| 6 | If the sum will be less than  minimum allowable value (to Short) | -32760 -6 -3 | Sum exceeds the norm |

1. Application that displays the name of the developer and how many days he needs to complete the task. It is necessary to calculate the date and time of the assignment. To get the date and time use the Calendar class from the java.util package

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| № | What is being checked | surname | neededDays | input |
| 1 | Correct work | Dubrovskaya | 3 | Dear Dubrovskaya  The current time is: *Sat Sep 26 16:17:39 MSK 2020*  Deadline: *Tue Sep 29 16:17:39 MSK 2020* |
| 2 | If neededDays is maximum allowable value of Short | Dubrovskaya | 32767 | Dear Dubrovskaya  The current time is: *Sat Sep 26 16:21:31 MSK 2020*  Deadline: *Sat Jun 14 16:21:31 MSK 2110* |
| 3 | If neededDays is more than maximum allowable value of Short | Yunkevich | 32768 | Exception: Value out of range |
| 4 | If neededDays is minimum allowable value of Short | Yunkevich | -32768 | Dear Yunkevich  The current time is: Sat Sep 26 16:26:32 MSK 2020  Deadline: Fri Jan 09 16:26:32 MSK 1931 |
| 5 | If neededDays is less than minimum allowable value of Short | Stankevich | -32769 | Exception: Value out of range |
| 6 | If there is no needed days to complete the task | Stankevich | 0 | Dear Stankevich  The current time is: *Sat Sep 26 16:27:57 MSK 2020*  Deadline: *Sat Sep 26 16:27:57 MSK 2020* |

1. Create an application that receives the date of birth (day, month and year) and determines what day of the week you were born, how old you are and congratulates you on your birthday if it is today (use the Calendar class from the java.util package)

|  |  |  |  |
| --- | --- | --- | --- |
| № | What is being checked | birthday | output |
| 1 | If the birthday is earlier than today’s day | 11-Jan-2000 | The day you were born: 3  Your age is: 20 |
| 2 | Incorrect data | 11-Ja-2000 | ParseException: Unparseable date: "11-Ja-2000" |
| 3 | If today is birthday | *26-Sep-2000* | The day you were born: 3  Your age is: 19  Happy birthday! |
| 4 | If the birthday is later than today’s day | 28-Sep-2000 | The day you were born: 5  Your age is: 19 |

**\*Tests to task01** are in the task01oop package