

Programming in Java

Assignment Set 3

Date: 29/01/2019

1. Write a Java program to sort a list of numbers given as arguments from the command line.
2. Write a Java program to find the maximum of a list of numbers given as arguments from the command line.
3. Write a Java program to sort a list of words given as arguments from the command line in ascending order of their lengths.
4. Write a Java program to sort a list of words given as arguments from the command line in alphabetical order.
5. Write a Java program to find out whether a word given as argument from the command line is a palindrome or not.
6. Write a Java program to count the number of vowels in a word given as argument from the command line.
7. Write a Java program to accept a number from the command line and then display the same in words.

Example: If the number is 346 then the output should be “Three Four Six”

8. Write a Java program to convert all upper case alphabets to lower case and all lower case alphabets to upper case in the words given as arguments from the command line.
Example: If the arguments are “The School is very GOOD” then the output should be “tHE sCHOOL IS VERY good”
9. Write a Java program to accept 9 numbers from the command line and check whether these 9 numbers form a 3x3 Unit matrix or not.

Example: If the numbers are 1 0 0 0 1 0 0 0 1; the matrix formed is

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1 0 0
0 1 0
0 0 1
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10. Write a Java program to accept 9 numbers from the command line which would form a 3x3 matrix. The program should then check whether the matrix is Upper triangular or Lower triangular in nature. The program should then compute the determinant of the matrix.
11. Write a Java program to accept two sets of 4 numbers from the command line. The 2 sets would each represent a 2x2 matrix. The program should then find the product of these two matrices.