BCA1317A02 Java Programming Lab

Warm up with basics of Java

Lab #3 (Due date: 23/09/2020 11:59 PM)

Topics: Array and Strings

Arrays

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- 1. Create an array of integer type in different ways.
- 2. Create an array of integer type and store the values of float types. Report the error that you get.
- 3. Create an array of character types. Can we convert this array into a String? If yes, please do.
- 4. Write a program to create arrays of all the primitive types.
- 5. Write a program to iterate over the array and print its elements. (Use for loop)
- 6. Write a program to iterate over the array and print its elements. (Use while loop)
- 7. Write a program to iterate over the array and print its elements. (Use for each loop)
- 8. Write a program to print the elements of an integer/float array after doubling.
- 9. Write a program that sums the elements of a char array.
- 10. Find the length of an array.
- 11. Write a method which takes an array as a parameter and returns the sum of all of its elements.
- 12. Write a program to access an element of the array beyond its length. Report the error/exception if any.
- 13. Write a program to copy all elements of one array into another array.
- 14. Write a program to find the frequency of each element in the array.
- 15. Write a program to print the duplicate elements of an array.
- 16. Write a program to print the elements of an array in reverse order.
- 17. Write a program to print the elements of an array present on even position.
- 18. Write a program to print the elements of an array present on odd position.

2D Array, Zagged Array and Matrix

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- 19. Write a program to create a print the elements of a 2D array of float type.
- 20. Write a program to create a zagged array of integer type.
- 21. Write a program to find the frequency of odd & even numbers in the given matrix
- 22. Write a program to find the sum of each row and each column of a matrix
- 23. Write a program to determine whether two matrices are equal
- 24. Write a program to add two matrices
- 25. Write a program to subtract the two matrices.
- 26. Write a program to multiply a matrix with a scaler.

Strings (String, StringBuffer and StringBuilder)

Note: Choose the String/StringBuffer/StringBuilder appropriately while create a string for solving the problems.

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- 27. Write a program to create a take a string from user and print that string.
- 28. Write a program to create an array of strings.
- 29. Write a program to find length of a string.
- 30. Write a program to copy one string to another string.
- 31. Write a program to concatenate two strings.
- 32. Write a program to compare two strings.
- 33. Write a program to convert lowercase string to uppercase.
- 34. Write a program to convert uppercase string to lowercase.
- 35. Write a program to toggle case of each character of a string.
- 36. Write a program to find total number of alphabets, digits or special character in a string.
- 37. Write a program to count total number of vowels and consonants in a string.
- 38. Write a program to count total number of words in a string.
- 39. Write a program to find reverse of a string.
- 40. Write a program to check whether a string is palindrome or not.