

CSN-103: Fundamentals of Object Oriented Programming

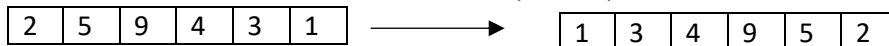
Assignment 03

General Instructions:

- Use **Scanner** class whenever required to accept inputs for the user at the runtime.
- DO NOT ATTEMPT TO CHEAT. YOU WILL BE SEVERELY PENALIZED.**
- Use of internet is **not** allowed. You can refer to your class notes.
- Make sure your TA record your marks after evaluation. Request for evaluation after the lab session will not be entertained.**
- Follow indentation while writing programs.

Programming Problems

- Write a JAVA program to reverse a 5 digit decimal number. Example 23456 → 65432.
- Write a JAVA program to convert a decimal number to binary number by calculating the quotient and remainder [Example Link: [Decimal-Binary](#)].
- Write a JAVA program to convert a 6-bit binary number to decimal number [Example Link: [Binary-Decimal](#)].
- Write a JAVA program which asks the user to enter a word in the UPPER case from the keyboard and display the same word in the lowercase.
- Write a JAVA program to check whether a number or a string is a palindrome or not.
- Write a JAVA program to find the factorial of a number using (i) for (ii) while (iii) do-while loop statements.
- Write a JAVA program to find the maximum of three numbers using the ternary operator.
- Write a JAVA to reverse the content of an array. Example



- Write a JAVA program to check whether a given matrix is Upper Triangular matrix or not.
- Run the following JAVA program and analyze the value of variables *i*, *j*, and *sum*.

```
class test
{
    public static void main(String[] args)
    {
        int i=5, j=5;
        int sum= ++i + j++;
        System.out.println("Sum: "+sum);
        System.out.println("i: "+i+" j: "+j);
    }
}
```

Is the value of the variable *sum* is calculated correctly? Justify your answer.