**Computer Science 2 Lab # 06**



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**CS2 Section # 3**

**Due:**Problem A by the **end of the lab**and ProblemsBby the end of **Saturday** of the same week.

**TOPIC: Review of complete Java programs, standard I/O, If-Else**

**ProblemB:**

**Problem Description:**

2) Problem B is at MyProgrammingLab # 71046 (chapter 18, Programming Projects)

**Analysis:**

(Describe the problem including input and output in your own words. Type your answer in the following with **BLUE font color**)

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| **The user will be asked to input numbers and I have to write a method that will display the reverse order of the input numbers.** |

**Design:**

(Describe the major steps for solving the problem.Type your answer in the following with **BLUE font color**)

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| **the reverseDisplay method will take a String value and return a string value**  **I will establish a base case by writing if(the string length is <= 1), return the parameter**  **Then to reverse the string use the charAt method to treat the string like an array and switch the elements**  **The main method will include a scanner for user input**  **And prints the result by implementing the method** |

**Coding:** (Copy and Paste Source Code here. Type your answer in the following with **BLUE font color**)

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| **import java.util.\*;   class ReverseDisplay{  public static void main (String[] args){  Scanner input = new Scanner(System.in);  String s = " ";  while (s.length() > 0) {  System.out.print("Enter an integer to be reversed or hit enter to end program:");  s = input.next();  System.out.println("The reverse of " + s + " is " + reverseDisplay(s));  }  }    public static String reverseDisplay(String value) {  if (value.length() <= 1) {  return value;  }  return value.charAt(value.length() - 1) + reverseDisplay(value.substring(0, value.length() - 1));  } }** |

**Testing:** (Describe how you test this program.Type your answer in the following with **BLUE font color**)

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| **RUN three times, using the same input as in the sample runs:**  **Test 1:**  **...**  **Test 2:**  **…**  **Test 3:**  **…** |