Navraj Singh 1310194
Partner Risham Singh 1313527
CSCI260 – W03
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Programming Assignment 6 - Midterm Preparation

```
public static void get5Names() {
              input = new Scanner(System.in);
              String[] names = new String[5]; //use of an array
                System.out.println(x:"Enter a name: "); //5 first names
                   names[i] = input.next(); //Capturing data
               System.out.println(x:"\nThe names you entered are: ");
                   System.out.println(names[i]); //string values
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
1.
Enter a name:
Nav
Enter a name:
Joe
Enter a name:
Bob
Enter a name:
LeBron
Enter a name:
Shelby
The names you entered are:
Nav
Joe
Bob
LeBron
Shelby
```

```
and then outputs/displays the contents of the array list to the user after the 3rd annual salary is
              entered. (Grading Rubric - Capturing data, use of a loop, use of an array list, 3 salaries,
              numeric value).
          public static void get3Salaries() {
              input = new Scanner(System.in);
              ArrayList<Integer> salaries = new ArrayList<Integer>(); //use of an array list
               for(int i = 0; i < 3; i++) { //use of a loop
                  System.out.println("Enter your " + i + " year's salary: "); //3 salaries
                  salaries.add(input.nextInt()); //Capturing data
              System.out.println(x:"\nThe salaries you entered are: ");
              System.out.println(salaries); //numeric value
PROBLEMS
                     DEBUG CONSOLE
                                      TERMINAL
Enter your 0 year's salary:
100
Enter your 1 year's salary:
Enter your 2 year's salary:
The salaries you entered are: [100, 200, 300]
           * 3.
           * Create a Java program that collects 2 countries from the user, stores them to an Linked List and
           * entered. (Grading Rubric - Capturing data, use of a loop, use of a linked list, 2 countries, string
          public static void get2Countries() {
              input = new Scanner(System.in);
              LinkedList<String> countries = new LinkedList<String>(); //use of a linked list
               for(int i = 0; i < 2; i++) { //use of a loop
                  System.out.println(x:"Enter a country: "); //2 countries
                  countries.add(input.next()); //Capturing data
              System.out.println(x:"\nThe countries you entered are: ");
              System.out.println(countries); //string value
PROBLEMS OUTPUT
                                      TERMINAL
Enter a country:
USA
Enter a country:
Canada
The countries you entered are:
[USA, Canada]
```

```
* Create a Java program that uses a Stack to store 5 word processing commands of your choice
                (e.g. cut, paste, font size, font style etc.) and then simulate the "undo" function by outputting
                the contents of the stack as... UNDO: [stack element] for all elements (Grading Rubric - Use of
                a loop, use of a stack, 5 word processing features, output simulation).
           public static void get5CommandsUndo() {
                Stack<String> commands = new Stack<String>(); //use of a stack
                input = new Scanner(System.in);
                for(int i = 0; i < 5; i++) {
                    System.out.println(x:"Enter a command: "); //5 word processing features
                    commands.push(input.next()); //Capturing data
                for(int i = 0; i < 5; i++) {
                    System.out.println("UNDO: " + commands.pop()); //output simulation
PROBLEMS
            OUTPUT
                       DEBUG CONSOLE
                                          TERMINAL
Enter a command:
Copy
Enter a command:
Paste
Enter a command:
Туре
Enter a command:
Bold
Enter a command:
Cut
UNDO: Cut
UNDO: Bold
UNDO: Type
UNDO: Paste
UNDO: Copy
           public static void get4CommandsRedo() {
               Queue<String> commands = new LinkedList<String>(); //use of a queue
               input = new Scanner(System.in);
               for(int i = 0; i < 4; i++) {
                   System.out.println(x:"Enter a command: "); //4 word processing features
                   commands.add(input.next()); //Capturing data
                   System.out.println("REDO: " + commands.remove()); //output simulation
  PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
  Enter a command:
  Delete
Enter a command:
  Insert
Enter a command:
Italics
  Enter a command:
Strikethrough
  REDO: Delete
REDO: Insert
REDO: Italics
REDO: Strikethrough
```

```
public static void get5Nums() {
              input = new Scanner(System.in);
              int[] nums = new int[5]; //use of an array
                  System.out.println(x:"Enter a number: "); //Capturing data
                  nums[i] = input.nextInt();
              for(int i = 0; i < nums.length - 1; i++) {
                  for(int j = 0; j < nums.length - i - 1; <math>j++) {
                      if(nums[j] > nums[j + 1]) {
                         int temp = nums[j + 1];
                          nums[j + 1] = nums[j];
                          nums[j] = temp;
              System.out.print(s:"\nThe sorted numbers are: ");
              for(int i = 0; i < 5; i++) {
                  System.out.print(nums[i] + ", "); //output of data
PROBLEMS OUTPUT DEBUG CONSOLE
                                    TERMINAL
Enter a number:
Enter a number:
200
Enter a number:
Enter a number:
105
Enter a number:
The sorted numbers are: 0, 50, 100, 105, 200,
```