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CSCI260 – W03  
Assignment #1

#### Programming Assignment 1A: Methods & Conditionals

```
1  public class ExampleMinNumber {
    Run | Debug
2      public static void main(String[] args) {
3          int a = 11;
4          int b = 6;
5          int c = minFunction(a, b);
6          System.out.println("Minimum Value = " + c);
7      }
8
9      /** returns the minimum of two numbers */
10     public static int minFunction(int n1, int n2) {
11         int min;
12         if (n1 > n2)
13             min = n2;
14         else
15             min = n1;
16         return min;
17     }
18 }
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
wifi-64-187-250-209:CSCI260 navraj$ cd /Users/navraj/Desktop
k-19.jdk/Contents/Home/bin/java -XX:+ShowCodeDetailsInException
er/workspaceStorage/f8c5eb56ef083741940cadd3fb422dca/redhat
Minimum Value = 6
wifi-64-187-250-209:CSCI260 navraj$
```

## Programming Assignment 1B: Arrays & Loops

```
1  package test;
2
3  public class Test {
4      Run | Debug
5      public static void main(String args[]) {
6          int [] numbers = {10, 20, 30, 40, 50};
7          for(int x : numbers ){
8              System.out.print( x );
9              System.out.print(s:",");
10         }
11
12         System.out.print(s:"\n");
13         String [] names ={"James", "Larry", "Tom", "Lacy"};
14         for( String name : names ) {
15             System.out.print( name );
16             System.out.print(s:",");
17         }
18     }
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
wifi-64-187-250-209:CSCI260 navraj$ cd /Users/navraj/Desktop/NYI
k-19.jdk/Contents/Home/bin/java -XX:+ShowCodeDetailsInExceptionMe
er/workspaceStorage/f8c5eb56ef083741940cadd3fb422dca/redhat.java/
10,20,30,40,50,
James,Larry,Tom,Lacy,wifi-64-187-250-209:CSCI260 navraj$
```

## Programming Assignment 1C: ArrayList

```
1 package arraylist1;
2
3 import java.util.*;
4
5 public class arraylist1 {
6
7     Run | Debug
8     public static void main(String args[]) {
9         ArrayList<String> obj = new ArrayList<String>();
10
11         obj.add(e:"Bob");
12         obj.add(e:"Mary");
13         obj.add(e:"John");
14         obj.add(e:"Amy");
15         obj.add(e:"Steve");
16
17         System.out.println("Currently the array list has following elements:"+obj);
18
19         obj.add(index:4, element:"Ann");
20         obj.add(index:1, element:"Tim");
21
22         obj.remove(o:"Charles");
23         obj.remove(o:"Harry");
24
25         System.out.println("Current array list is:"+obj);
26
27         obj.remove(index:1);
28
29         System.out.println("Current array list is:"+obj);
30     }
31 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Currently the array list has following elements:[Bob, Mary, John, Amy, Steve]  
Current array list is:[Bob, Tim, Mary, John, Amy, Ann, Steve]  
Current array list is:[Bob, Mary, John, Amy, Ann, Steve]

## Challenge 1

```
1 public class challenge1 {
2     public static void findLog(int x) {
3         System.out.println("Number: " + x + " | Natural Log: " + Math.log(x));
4     }
5
6     Run | Debug
7     public static void main(String[] args) {
8         int[] numbers = {10, 20, 30, 40, 50, 60, 70, 80, 90, 100};
9
10        for (int x : numbers) {
11            findLog(x);
12        }
13    }
}
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
wifi-64-187-250-209:CSCI260 navraj$ cd /Users/navraj/Desktop/NYIT/CSCI260 ; /usr/bin/en
k-19.jdk/Contents/Home/bin/java -XX:+ShowCodeDetailsInExceptionMessages -cp /Users/navra
er/workspaceStorage/f8c5eb56ef083741940cadd3fb422dca/redhat.java/jdt_ws/CSCI260_7aa9f3d1
Number: 10 | Natural Log: 2.302585092994046
Number: 20 | Natural Log: 2.995732273553991
Number: 30 | Natural Log: 3.4011973816621555
Number: 40 | Natural Log: 3.6888794541139363
Number: 50 | Natural Log: 3.912023005428146
Number: 60 | Natural Log: 4.0943445622221
Number: 70 | Natural Log: 4.248495242049359
Number: 80 | Natural Log: 4.382026634673881
Number: 90 | Natural Log: 4.499809670330265
Number: 100 | Natural Log: 4.605170185988092
wifi-64-187-250-209:CSCI260 navraj$
```

## Challenge 1b

```
1  import java.util.ArrayList;
2  import java.util.Scanner;
3
4  public class challenge2 {
5
6      public static ArrayList<String> createArrayList() {
7          ArrayList<String> myArray = new ArrayList<String>();
8          Scanner input = new Scanner(System.in);
9
10         while (true) {
11             System.out.println(x:"Enter a string to add to the array list (type quit to quit): ");
12             String userInput = input.nextLine();
13             if (userInput.equals(anObject:"quit")) {
14                 break;
15             } else {
16                 myArray.add(userInput);
17             }
18         }
19         input.close();
20         return myArray;
21     }
22
23     public static void printArrayList(ArrayList<String> myArray) {
24         System.out.println(x:"The array list contains: ");
25         for (String x : myArray) {
26             System.out.print(x + ", ");
27         }
28     }
29
30     Run | Debug
31     public static void main(String[] args) {
32         ArrayList<String> myArray = createArrayList();
33         System.out.println(x:"FINSIHED CREATING ARRAY LIST");
34         printArrayList(myArray);
35         System.out.println();
36     }
37 }
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
Enter a string to add to the array list (type quit to quit):
joe
Enter a string to add to the array list (type quit to quit):
mama
Enter a string to add to the array list (type quit to quit):
quit
FINSIHED CREATING ARRAY LIST
The array list contains:
joe, mama,
wifi-64-187-250-209:CSCI260 navraj$
```

