Practical No. 3

1. Wrapper Class Example 1 :

```
public class WrapperExample1 {
  public static void main(String[] args) {
    int num = 98765;
    Integer boxedNum = Integer.valueOf(num);
    String str = boxedNum.toString();
    int sum = 0;
    for (char c : str.toCharArray()) {
      int digit = Integer.valueOf(String.valueOf(c));
      sum += digit;
    }
    System.out.println("Number: " + num);
    System.out.println("Digit Sum: " + sum);
  }
}
```

Output:

```
Number: 98765
Digit Sum: 35
```

2. Wrapper Class Example 2 :

```
import java.util.*;
public class WrapperExample2 {
  public static void main(String[] args) {
    double[] marks = {88.5, 76.0, 92.5, 69.0};
    List<Double> list = new ArrayList<>();
    for (double m : marks) {
      list.add(m);
    }
    double total = 0;
    for (Double d : list) {
      total += d;
    }
    double average = total / list.size();
    System.out.println("Marks: " + list);
    System.out.println("Average = " + average);
  } }
```

Output :
Marks: [88.5, 76.0, 92.5, 69.0]
Average = 81.5
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3. Wrapper Class Example 3 (Palindrome Check) :

```
public class WrapperExample3 {
  public static void main(String[] args) {
    String word = "Level";
    word = word.toLowerCase();
    Character[] chars = new Character[word.length()];
    for (int i = 0; i < word.length(); i++) {
      chars[i] = Character.valueOf(word.charAt(i));
    }
    boolean isPalindrome = true;
    int left = 0, right = word.length() - 1;
    while (left < right) {
      if (!chars[left].equals(chars[right])) {
        isPalindrome = false;
        break;
      }
      left++;
      right--;
    }
    System.out.println("Word: " + word);
    System.out.println("Palindrome? " + isPalindrome);
  }
}
```

Output:
Word: level
Palindrome? true