

Chapter 3 Performance Tasks

For these performance tasks, you may only import java.util.Scanner (no other imports are allowed).

Also, please include comments in your code. For example, your name and what the program does would be a nice start. But other comments would be nice as well.

(F) Yahtzee Game Part 1

- You will create a private static void method for each die. Calling the method will print the appropriate die as ASCII art.
- 5 dice will print out as in the example to the right.
- Have an option to allow the player to roll again or quit.
- Generate value of each die using the math class for the random number. You may not use any other random number utility.
- Do not worry about creating the actual game of Yahtzee yet, we will revisit this game after we learn about arrays.

```
+-----+
| 0     |
|   0   |
|    0  |
+-----+
```

```
+-----+
| 0     |
|       |
|      0 |
+-----+
```

```
+-----+
|       |
|      0 |
+-----+
```

(G) The Greatest Number

- The user will enter 3 integer numbers. (Do not use arrays)
- Write a method that compares the 3 numbers and returns the highest value of the 3 even if there is a tie.
- Have an option to allow the user to enter three numbers again quit.

```
+-----+
| 0  0 |
| 0  0 |
| 0  0 |
+-----+
```

```
+-----+
| 0  0 |
| 0  0 |
+-----+
```

(H) String Explorer Series – Scooby Doo

- You will need to read up on string methods in your book to do this.
- Have the user enter a single word.
- Write a method that accepts a String parameter and returns a string with the first letter of the word replaced with the letter "R".
- Print out the following "Scooby Doo would say "+revised string
- Have an option to allow the user to enter another word or quit, but be careful, what if the user wants to know how Scooby would say quit?.

Example:

User enters the word: Shaggy

The following output results: Scooby Doo would say Rhaggy.

(I) Nearest 100th

The user will enter a number such as 2.3483. Your program will have two methods: One to return the whole number and one to return decimal portion as an integer rounded to the nearest 100th place. Refer to my program that converted an improper fraction to a mixed number. The output would be 2 & 35/100. Do not simplify the fraction to 7/20.

Have the option for the user to enter a new number or quit.

Hints: See the math class in the book. Also you will need to cast, so use that to your advantage.