

Assignment #2

1) [40 points] Design and implement an application that reads an integer value and prints out the sum of all EVEN integers between 2 and its input value, inclusive. Print an error message if the input value is less than 2. Prompt accordingly.

2) [60 points] Computers are playing an increasing role in education. Write a program that will help elementary school children learn multiplication. Use the Random class in the java.util package to produce two positive one-digit integers. The format to generating this number is as follows:

```
import java.util.* ;

/** in your program */

Random myRandomNumber = new Random();
int myOneDigitNumber = Math.abs( myRandomNumber.nextInt() % 10 );
```

The Math class in the java.lang package is also used to convert the number to an absolute value. The modulus is used to get a single digit number.

Use this one digit number produced to type the question as follows:

How much is 6 times 7?

The student then types the answer. Your program checks the student's answer. If it is correct, print "Very Good!" and then ask another multiplication question. If the answer is wrong, print "No. Please try again." and then let the student try the same question again repeatedly until the student finally gets it right. Enter a -1 to exit program.