Ex 7.27 ( Sieve of Eratosthenes)

Sample run of the program is as follows:

C:\school\SP22\OOP\student\_week\_code>java Sieve.java

2 is prime.

3 is prime.

5 is prime.

7 is prime.

……………

991 is prime.

997 is prime.

168 primes found.

C:\school\SP22\OOP\student\_week\_code>

Ex 7.39 ( Enhanced Gradebook)

Sample run of the program is as follows:

C:\school\SP22\OOP\student\_week\_code>java GradeBookTest.java

Enter the number of students : 2

Enter the number of tests per student : 3

Welcome to the grade book for

CS101 Introduction to Java Programming

Enter grade for Test # 1 of Student # 1 : 5

Enter grade for Test # 2 of Student # 1 : 10

Enter grade for Test # 3 of Student # 1 : 15

Enter grade for Test # 1 of Student # 2 : 20

Enter grade for Test # 2 of Student # 2 : 30

Enter grade for Test # 3 of Student # 2 : 40

The grades are:

Test 1 Test 2 Test 3 Average

Student 1 5 10 15 10.00

Student 2 20 30 40 30.00

Lowest grade in the grade book is 5

Highest grade in the grade book is 40

Overall grade distribution:

00-09: \*

10-19: \*\*

20-29: \*

30-39: \*

40-49: \*

50-59:

60-69:

70-79:

80-89:

90-99:

100:

C:\school\SP22\OOP\student\_week\_code>

Ex 8.7 ( Enhancing Class Time2)

Sample run of the program is as follows:

C:\school\SP22\OOP\student\_week\_code>java Time2Test

Enter the time

Hours: 23

Minutes: 58

Seconds: 59

1. Add 1 second

2. Add 1 minute

3. Add 1 hour

4. Add seconds

5. Exit

Choice: 1

Hour: 23 Minute: 59 Second: 0

Universal time: 23:59:00 Standard time: 11:59:00 PM

1. Add 1 second

2. Add 1 minute

3. Add 1 hour

4. Add seconds

5. Exit

Choice: 4

Enter seconds to tick: 65

Hour: 0 Minute: 0 Second: 5

Universal time: 00:00:05 Standard time: 12:00:05 AM

1. Add 1 second

2. Add 1 minute

3. Add 1 hour

4. Add seconds

5. Exit

Choice: 3

Hour: 1 Minute: 0 Second: 5

Universal time: 01:00:05 Standard time: 1:00:05 AM

1. Add 1 second

2. Add 1 minute

3. Add 1 hour

4. Add seconds

5. Exit

Choice: 5

C:\school\SP22\OOP\student\_week\_code>