SSN College of Engineering,
Department of Computer Science and Engineering
CS2309 - Java Lab

Exercise 2a:

1.Write a program to illustrate the use the Date class functionalities.

2. Write a program to create a package called myjava.calculator which contains the following functions:

- add
- sub
- mul
- div
- pow
- sqrt
- mod

Use this package in your calculator program and perform the operations.

Exercise 2b:

1. Develop Date class in Java similar to the one available in java.util package. Use JavaDoc comments.

Instructions:

1. Create a package myjava.myutil.
2. Create a class MyDate with the members needed for storing date and time. [Hint: day, date, month, year, hours, minutes, seconds …..]
3. Create Default constructor to initialize for system's date and time.
4. Create a Parameterized constructor to initialize the date
5. Create a Parameterized constructor to initialize the date and time.
6. Create the methods to get and set the values of Date and Time. [Hint: 1. getDay --returns Friday
   2. getDate –returns 09

3. getMonth – return july
4. getYear – returns 2010
5. a. getFullDate – returns 09,July,2010, Friday
   b. setFullDate – splits and set the corresponding value
6. setDate
7. setYear
8. setMonth

Similarly for time

9. getHours – return 10
10. getMinutes – returns 03
11. getSeconds – returns 32
12. a. getTime – 10 : 03 : 32 AM
    b. setTime – splits and set the corresponding value
13. setHours – depends on railway time check for the meridian
14. setMinutes
15. setSeconds]

7. Include the following functions
    16. equals – checks whether dates are equal or not
    17.compareTo - Compares two Dates for ordering.
    18. before - Tests if this date is before the specified date
    19. after - Tests if this date is after the specified date.
    20. toString - Converts this Date object to a String of the form
8. Use this package in your program developed in 2a.1.
9. Insert JavaDoc comments at proper locations. Generate the code documentation.