HOMEWORK 5 - FALL 2020

HOMEWORK 5 - GRADING KEY

1. (17 points) Documentation and coding style:

- Name, ID number and recitation at the top of ALL java files [2 points]
- Precise and correct specifications[5 points]
- Indentation[3 points]
- Variable names[2 points]
- Javadoc Style *(see NOTE). [5 points]

NOTE 1: You only need to submit your *.java files. We will use the javadoc *.java command to create the javadoc files.

NOTE 2: YOUR ASSIGNMENT WILL NOT BE GRADED if you submit only *.class files.

NOTE 3: YOUR ASSIGNMENT WILL NOT BE GRADED if you use ArrayList, Vector, LinkedList or any predefined Java API Data Structures.

2. (13 Points) Source Code

- Implementation done as specified (additional methods are OK) [8 points]
- Throw an exception back to the calling method(s) if a precondition is violated. [5 points]

3. (70 Points) Program Correctness

- Program compiles without any errors. [12 points]
- Required functions work correctly:
  - pwd. [10 points]
  - ls. [5 points]
  - ls -R. [12 points]
  - cd {dir}. [5 points]
  - cd /. [2 points]
  - mkdir {name}. [9 points]
  - touch {name}. [9 points]
  - exit. [1 points]
- Erroneous input handled "gracefully." (Appropriate Error messages displayed to the user.) [5 points]

4. (10 points) Extra Credit

- File system can support up to 10 DirectoryNodes. [3 points]
- Extra credit functions work correctly:
  - find {name}. [1 points]
  - cd ... [2 points]
  - cd {path}. [2 points]
  - mv {src} {dst}. [2 points]