LAB 4: ITECalculator

If you have completed lab 1 to 3, your calculator already contains a lot of methods to perform arithmetic, basic trigonometric, and bitwise methods. In this lab, you will continue your calculator application by adding the following features:

A. Create a new class named it StorageConverter. The StorageConverter class will consist of wide ranges of methods to perform conversion.

B. Please add Javadoc comment to above the class to explain the purpose of this class and above each method to explain it.

C. In the StorageConverter class, please create the following methods:

1. byte2KB(long numByte) to convert from byte to kilobyte

2. byte2MB(long numByte) to convert from byte to megabyte

3. byte2GB(long numByte) to convert from byte to gigabyte

4. byte2TB(long numByte) to convert from byte to terabyte

5. byte2PB(long numByte) to convert from byte to petabyte

6. kb2Byte(long kilobyte) to convert from kilobyte to byte

7. kb2MB(long kilobyte) to convert from kilobyte to megabyte

8. kb2GB(long kilobyte) to convert from kilobyte to gigabyte

9. kb2TB(long kilobyte) to convert from kilobyte to terabyte

10. kb2PB(long kilobyte) to convert from kilobyte to petabyte

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11. mb2Byte(long megabyte) to convert from megabyte to byte

12. mb2KB(long megabyte) to convert from megabyte to kilobyte

13. mb2GB(long megabyte) to convert from megabyte to gigabyte

14. mb2TB(long megabyte) to convert from megabyte to terabyte

15. mb2PB(long megabyte) to convert from megabyte to petabyte

16. gb2Byte(long gigabyte) to convert from gigabyte to byte

17. gb2KB(long gigabyte) to convert from gigabyte to kilobyte

18. gb2MB(long gigabyte) to convert from gigabyte to megabyte

19. gb2TB(long gigabyte) to convert from gigabyte to terabyte

20. gb2PB(long gigabyte) to convert from gigabyte to petabyte

21. tb2Byte(long terabyte) to convert from terabyte to byte

22. tb2KB(long terabyte) to convert from terabyte to kilobyte

23. tb2MB(long terabyte) to convert from terabyte to megabyte

24. tb2GB(long terabyte) to convert from terabyte to gigabyte

25. tb2PB(long terabyte) to convert from terabyte to petabyte

26. pb2Byte(long petabyte) to convert from petabyte to byte

27. pb2KB(long petabyte) to convert from petabyte to kilobyte

28. pb2MB(long petabyte) to convert from petabyte to megabyte

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29. pb2GB(long petabyte) to convert from petabyte to gigabyte

30. pb2TB(long petabyte) to convert from petabyte to terabyte

D. Please add fourth menu item Storage Converter to the menu

E. When user chooses menu number 5, it wills show a submenu containing the following menu

    1. Byte

- Byte to Kilobyte
- Byte to Megabyte
- Byte to Gigabyte
- Byte to Terabyte
- Byte to Petabyte

    2. Kilobyte

- Kilobyte to byte
- Kilobyte to Megabyte
- Kilobyte to Gigabyte
- Kilobyte to Terabyte
- Kilobyte to Petabyte

    3. Megabyte

- Megabyte to byte
- Megabyte to Kilobyte
- Megabyte to Gigabyte
- Megabyte to Terabyte
- Megabyte to Petabyte

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4. Gigabyte

- Gigabyte to byte
- Gigabyte to Kilobyte
- Gigabyte to Megabyte
- Gigabyte to Terabyte
- Gigabyte to Petabyte

5. Terabyte

- Terabyte to byte
- Terabyte to Kilobyte
- Terabyte to Megabyte
- Terabyte to Gigabyte
- Terabyte to Petabyte

6. Petabyte

- Petabyte to byte
- Petabyte to Kilobyte
- Petabyte to Megabyte
- Petabyte to Gigabyte
- Petabyte to Terabyte

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Note:

No	Unit	Description
1	Kilobyte (KB)	1 KB = 1024 Bytes
2	Megabyte (MB)	1 MB = 1024 KB
3	Gigabyte (GB)	1 GB = 1024 MB
4	Terabyte (TB)	1 TB = 1024 MB
5	Petabyte (PB)	1 PB = 1024 TB