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This exercise is submitted in GitHub, in the folder CapstonProject1\SikOn\PackageApp, and has these objects:

1. java.bat

has all the dos commands to:

* compile java files into class files,
* execute the class file,
* generate jar file,
* generate MANIFEST.MF.
* re-generate jar file with modified MANIFEST.MF.
* execute the jar file.

1. src\gov\sgus\enumSample1.java

This program has 6 demonstrations to show all the possible ways of using enum.

1. src\gov\sgus\enumSample2.java

This program:

* reads an input text file to load telephone directory and call history,
* takes command line input to add, list, and delete telephone directory and call history,
* and upon exit, writes all telephone directories and call history to the same text file.

This program also demonstrates:

* the use of command line input using Scanner,
* String manipulations.
* System.out.print output
* use of Class DirEntry and enum Areas,
* use of LocalDateTime class to handle data and time of various format and manners.

1. src\gov\sgus\Areas.java

This is a telephone area, area code, and phone call charge rate table for use to validate telephone numbers and provide call charge rates.

1. src\gov\sgus\DirEntry.java

This java class is for demonstration of using java object to implement a simple telephone directory, with:

* Polymorphism: when two instantiations methods are used.
* getters,
* setters with validations implemented.
* toString to facilitate directory details printing.

1. src\gov\sgus\StarterClass.java

This is the entry point of the package. Each time it is invoked, it runs enumSample1, followed by enumSample2.

1. build\classes\ enumSample.txt

This is the text file for saving the telephone directory and call history. The file is option as a new one is created if not exist. If file exist, new data is appended to it.

Note, when running enumSample2, use these commands to test input of telephone directories and call history:

ad +60361234567Ampang

ad Sharifah +60361234567KotaKinabalu

ad Aisha +60361234567Ampang

ad Tan ah gau +60881234567KotaKinabalu

ad Tan ah gau +60881234567KK

ad Tim si si +60422221234Kulim

ac 2020-13-12T16:30:25+603987654320300

ac 2020-12-12T16:30:25+653987654320300

ac 2020-12-12T16:30:25+603987654323000

ac 2020-11-25T16:30:25+603987654320300