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Jar File & MANIFEST.MF File in Java

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=> Jar Files :-

- -> Full form of JAR is Java Archive
- -> Jar file is used to aggregate .class files, metadata, packages, images, audio files etc into one file so that we can distribute it on java platform
- -> Jar file is the compressed form of all the resources (.class, packages, metadata, images, audio etc)
 - -> How to create jar file :-
- = jar -cf JarFileName.jar file_names (cf is create file - cvf create verbos file)
 - = jar -cf JarFileName.jar *
 - -> How to view jar file content :-
- = jar -tf JarFileName.jar (tf is table format or tableview in file)
 - -> How to extract jar files :-
 - = jar -xf JarFileName.jar (xf is extract file)

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- -> How to update jar file :-
 - = jar -uf JarFileName.jar
- -> How to run jar file :-
 - = java -jar JarFileName.jar

=> MANIFEST.MF File :-

- -> Manifest is the file which is present in every jar file which represents the features of jar file
- -> Whenever we create jar file, MANIFEST.MF file is created automatically in META-INF folder
- -> The default Manifest file contains only 2 enteries in the form of name-value pair but we can insert more values in MANIFEST.MF file

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- -> How to insert data in MANIFEST.MF file :-
- 1. Create any txt file with any name and provide values in it using name-value pair
- 2. Then provide the command in CMD :jar -cfm JarFileName.jar
 TextFileName.txt *
 - -> Points to remember :-
- 1. We have to provide the space after name and colon
- 2. If we provide any .class file name in text file then we should not include .class at the end of ClassName
- 3. We should always add newline at the end of text file

=> Executable Jar File :-

- -> If any jar file contains the main class (the class which contains the main method) is known as executable jar file
- -> To create executable jar file, we have to provide Main-Class name value pair in manifest file
 - -> How to run executable jar file form CMD :- java -jar JarFileName.jar

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We Educate] => Package Sealing := Develop

- -> We can seal a package in java to ensure that no further classes can add themselves to it.
- -> For example we can use package sealing to ensure version consistency among the classes in our software

-> How to achieve package sealing :-

We have to add name-value pair in MANIFEST file i.e Sealed: true

=> Batch File :-

- -> A batch file is a script file in windows or DOS
- -> A batch file contains a series of commands
- -> Extention of batch file is .bat



Company Links & Contacts

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