File Packer UnPacker

- This project is used to perform process monitoring activity.

- By using this project we can fetch data from all files and merge it into one file. As well as we can also extract all packed file whenever required.

- **Platform required :**
  Windows NT platform OR Linux.

- **Architectural requirement :**
  Intel 32 bit processor.

- **User Interface :**
  Graphical User Interface.

- **Technology used :**
  Java Programming.

- **Features provided by File Packer-Unpacker :**
  This project is divided into two parts as Packing and Unpacking.

- **Packing Activity :**

  • In case of Packing activity we accept directory name and file name from user.
  •We have to create new regular file as the name specified by the user.
  • Now open the directory and traverse each file from that directory. In newly created file write Metadata as header and actual file data in sequence.
  •While writing data perform encryption.
  • Each name of file ,its size and checksum should be written in log file which gets created in system directory.
  • After packing display packing report.

- **UnPacking Activity :**

  • In case of UnPacking activity we accept packed file name from user.

  • for authentication of packed file use any logic like Magic Number.

  • Open the packed file in read mode and perform below activity as Read header

  • From the name specified in header create new file.

  •Write data into newly created file from packed file.

  • Repeat all above steps till we reached at end of the file unpacked file.

  • After unpacking display unpacking report.

Main purpose of this project is to merge large amount of files into one file by avoiding memory wastage.
We also provide data security by using the concept of Encryption.
For next level data security we add MD5 Checksum check and Primary header check.