# PHASE 1 PROJECT - VIRTUAL KEY FOR YOUR REPOSITORIES

#### **COMPANY: LOCKERS PVT.LTD**

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### **Link to GitHub repository:**

https://github.com/Aswini88Palani/Locked Me Project.git

## **Sprint 1:**

- 1. Design Flow of the program
- 2. Decide Classes and Methods
- 3. Create Project Structure
- 4. Code Welcome Screen
- 5. Code Main Menu
  List Files
  Manage Files
  Exit the program

### **Sprint 2:**

1. Code Business Level Operations

Add a File Method

Delete a File Method

Search a File Method

Exit to Main Menu

- 2. Code to display result on successful & unsuccessful operation
- 3. Use appropriate concepts to display the output in a standard manner

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#### Algorithm:

- 1) Start
- 2) Print Options to list files, manage files and exit the program
- 3) If choice is 1
  - a) Read all files in the directory
  - b) Sort files in ascending order
  - c) Show the file list

# **Core Concepts Implemented:**

- 1. Encapsulation For better control of class attributes and methods; Improved flexibility, maintainability and re-usability of the code.
- 2. Do While loop Execute the code block once, before checking if the condition is true, then repeat the loop as long as the condition is true.
- 3. Try Catch statement Tests a block of code for errors while the program is being executed; The catch statement allows to define a block of code to be executed, if an error occurs in the try statement.
- 4. If statement To execute a block of code, if a condition is true.

- 5. Exists method To check whether there is a file or directory denoted by the abstract filename exists or not.
- 6. Arrays To arrange data in a specific order.
- 7. Switch To select one of many code blocks to be executed.
- 8. File Handling To work with files; file creation, deletion & search.
- 9. Number Format Exception That accepts only numbers as input from the user.
- 10. Equals To compare two values and returns the result.

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# **Conclusion:**

Best practices are followed to ensure that the program doesn't end spontaneously and all exceptions are handled using custom or default exception classes. Arrays & File Handling methods are implemented to sort the files in ascending order; create new file, delete and search a file in the directory.