**Phase 1 Source Code**

package Project;

import java.util.HashSet;

import java.util.Scanner;

import java.util.Set;

import java.util.\*;

public class Phase\_1\_Project

{

public static void main(String[] args)

{

ArrayList <String> list = new ArrayList<String>();

while (true)

{

System.out.println("-------- Welcome to Lockers Pvt. Ltd :) --------");

System.out.println("\t\t\t\t--By V.Narendra (EMP-ID:10847)");

System.out.println("Main Menu");

System.out.println("1.Sort the Files in Ascending Order");

System.out.println("2.Performing File operations:");

System.out.println("3.Exit");

System.out.println("Enter Your Choice");

Scanner sc = new Scanner(System.in);

int a = sc.nextInt();

try {

switch (a)

{

case 1:

if (list.isEmpty())

{

System.out.println("No files found.");

} else

{

Collections.sort(list);

System.out.println(list);

}

break;

case 2:

list=fileoperations(list);

break;

case 3:

System.out.println("Thank You ");

System.exit(1);

default:

System.out.println("Invalid Input!! Please enter the valid Input");

break;

}

}catch(Exception e) {

System.out.println(e.toString());

}

}

}

private static ArrayList<String> fileoperations(ArrayList<String> list)

{

Scanner sc = new Scanner(System.in);

while(true){

System.out.println("-----File Operations-----");

System.out.println("1. Add file");

System.out.println("2. Delete file");

System.out.println("3. Search file");

System.out.println("4. return to Main Menu");

System.out.println("Enter Your Choice");

int name = sc.nextInt();

switch (name)

{

case 1: list = AddFile(list);

System.out.println("File is added:"+list);

break;

case 2:

list = DeleteFile(list);

System.out.println(list);

System.out.println("File is deleted:"+list);

break;

case 3:

Search(list);

break;

case 4:

return list;

default:

System.out.println("Invalid Input!! Please enter the valid Input");

break;

}

}

}

public static ArrayList<String> AddFile(ArrayList<String> list)

{

Scanner sc = new Scanner(System.in);

System.out.println("Enter the Element to Add in List");

String name = sc.nextLine();

list.add(name);

return list;

}

public static ArrayList<String> DeleteFile(ArrayList<String> list)

{

Scanner sc = new Scanner(System.in);

System.out.println("Enter the Element to Remove in List");

String name = sc.nextLine();

list.remove(name);

return list;

}

public static void Search(ArrayList<String> list)

{

Scanner sc = new Scanner(System.in);

System.out.println("Enter the Element to Search in List");

String name = sc.nextLine();

int temp=list.indexOf(name);

if(temp==-1) {

System.out.println("Element Not Found");

}

else {

System.out.println("Element Found at "+temp);

}

}

}