**package** com.simplilearn.basics;

**// importing files for necessary operations**

**import** java.util.\*;

**import** java.io.\*;

**public** **class** LockedMePrototype {

**public** **static** **void** main(String[] args) **throws** IOException

{

Scanner sc = **new** Scanner(System.***in***); // Scanner object for taking user input

**while**(**true**) // loop for the operations to repeat until we don’t break it.

{ // Printing details of the project and the developer

System.***out***.println("Welcome to LockedMe");

System.***out***.println("Name :- Mohnish Pawar" + "\n" + "Email :- mohnishpwr10@gmail.com" + "\n" + "Mobile No :- 9960393318");

System.***out***.println("Please find the operations which can be done below");

System.***out***.println("0. Sort" + "\n" + "1. Add a file" + "\n" + "2. Delete a file" + "\n" + "3. Search a file" + "\n" + "4. Go Back to the main menu" + "\n" + "5. Exit the application");

System.***out***.println("Please enter the option (Integer only please) to choose the operation to be done");

**int** option = sc.nextInt(); // Take integer input from the user

**switch**(option) // Pick the proper option to choose the appropriate operation

{

**case** 0 : *sort*(); // calling sort function

**break**;

**case** 1 : System.***out***.println("Please enter the name of the file which you want to add");

*add*(); // calling add function

**break**;

**case** 2 : System.***out***.println("enter file name:");

String s1 = sc.next();

*delete*(s1); // calling delete function

**break**;

**case** 3: System.***out***.println("enter file name:");

String s2=sc.next(); // Taking string input from the user

**int** r=*search*(s2); // Call the search function to work on the user input string to decide if a file can be deleted

**if**(r==1)

System.***out***.println("File Found");

**else**

System.***out***.println("File Not found");

**break**;

**case** 4: System.***out***.println("Returned to main menu");

**break**;

**case** 5 : System.*exit*(0); // Terminate the application

**break**;

**default** : System.***out***.println("You have chosen an incorrect option" + "\n" + "Please choose the correct option");

**break**;

}

}

}

**private** **static** **void** sort() // Add all the files in a list and then sort them.

{

File file=**new** File("D:\\Phase 1\\LockedMe\\");

String[] files = file.list(); // add all the files in an array

Arrays.*asList*(files); // Transfer all the files from array to a list

Arrays.*sort*(files); // Sort the files

System.***out***.println("The Sorted files are:");

**for**(String i:files) // Printing the elements of the list

System.***out***.print(i+" ");

System.***out***.println();

}

**private** **static** **void** add() **throws** IOException // function is complete

{

Scanner sc = **new** Scanner(System.***in***);

String fileName = sc.next(); // Taking string input from the user

fileName = fileName + ".txt"; // Making notepad files…..

String path = "D:" + File.***separator*** + "Phase 1" + File.***separator*** + "LockedMe" + File.***separator*** + fileName; // setting the path where the created file would be saved

File file = **new** File(path);

**if**(file.createNewFile()) // File creation logic

{

System.***out***.println("File created successfully");

}

**else**

{

System.***out***.println("File already exists");

}

}

**private** **static** **void** delete(String fileName) **throws** IOException

{

File file = **new** File("D:\\Phase 1\\LockedMe\\"+fileName);

**int** k = *search*(fileName); // Depending on the result of the search operation, decide how the delete operation would work

**if**(k==1)

{

file.delete();

System.***out***.println(file.getName() + "deleted successfully" );

}

**else**

{

System.***out***.println(file.getName() + "not found");

}

}

**private** **static** **int** search(String fileName) **throws** IOException // function is complete

{

File file = **new** File("D:\\Phase 1\\LockedMe\\");

String[] files = file.list();

**for**(**int** i = 0; i < files.length;i++) // Traverse through the loop in search of the file

{

**if**(files[i].equals(fileName)) // if the file to be searched is present in the array….

**return** 1;

}

**return** 0;

}

}