

```
1 package Phase1project;
2
3 import java.io.IOException;
4
5 public class Work1
6 {
7     public static final String path = "E:\\\\directory";
8     Scanner in=new Scanner(System.in);
9
10    public static void maindisp()
11    {
12        System.out.println("----WELCOME TO FILE DIRECTORY----");
13        System.out.println("-----");
14        System.out.println("-----");
15        System.out.println("-----YOU ARE HERE-----");
16        System.out.println("-----");
17        System.out.println(path);
18        System.out.println("-----");
19        System.out.println("-----");
20    }
21
22    public static void menu1()
23    {
24        System.out.println("-----");
25        System.out.println("1.SHOW ALL FILES IN SORTED MANNER");
26        System.out.println("2.GO TO FILE OPTIONS");
27        System.out.println("3.EXIT OUT");
28        System.out.println("-----");
29        System.out.println("-----");
30        System.out.println("ENTER YOUR CHOICE");
31        System.out.println("ENTER NUMBERS 1 TO 3 ONLY");
32        System.out.println("-----");
33    }
34    public static void menu2()
35    {
36        System.out.println("-----");
37        System.out.println("1.ADD A FILE");
38        System.out.println("2.DELETE A FILE");
39        System.out.println("3.SEARCH A FILE");
40        System.out.println("4.READ A FILE");
41        System.out.println("5.WRITE CONTENTS TO A FILE");
42        System.out.println("6.GO BACK");
43        System.out.println("-----");
44        System.out.println("-----");
45        System.out.println("ENTER YOUR CHOICE");
46        System.out.println("ENTER NUMBERS 1 TO 6 ONLY");
47        System.out.println("-----");
48    }
49    public static void exitdisp()
50    {
51        System.out.println("-----");
52        System.out.println("-----");
53        System.out.println("-----YOU ARE OUT-----");
54        System.out.println("-----THANK YOU-----");
55        System.out.println("-----");
56    }
57
58    public static void menu1ops()
```

```

59 {
60     int choice=0;
61     char decission=0;
62     try (Scanner in = new Scanner(System.in)) {
63         Filehandle ob = new Filehandle();
64         //MENU 1 OPERATIONS ARE DONE
65         do
66         {
67             menu1();
68             try {
69                 choice=Integer.parseInt(in.nextLine());
70             } catch (NumberFormatException e) {
71                 System.out.println("INVALID INPUT");
72                 System.out.println("ENTER NUMBERS 1 TO 3 ONLY");
73                 menu1ops();
74             }
75             switch (choice)
76             {
77                 case 1:
78                     System.out.println();
79                     try {
80                         ob.listAllFiles(path);
81                     } catch (NullPointerException e) {
82                         System.out.println(e.getMessage());
83                     } catch (IllegalArgumentException e) {
84                         System.out.println(e.getMessage());
85                     } catch (Exception e) {
86                         System.out.println(e.getMessage());
87                     }
88                     System.out.println("\n*****\n");
89                     break;
90
91                 case 2:
92                     menu2ops();
93                     break;
94
95
96                 case 3:
97                     System.out.println("\n Are you sure you want to exit ? ");
98                     System.out.println(" (Y) ==> Yes (N) ==> No ");
99                     decission = in.nextLine().toUpperCase().charAt(0);
100                     if(decission == 'Y')
101                     {
102                         System.out.println("\n");
103                         exitdisp();
104                         System.exit(1);
105                     } else if(decission == 'N') {
106                         System.out.println("\n");
107                         menu1ops();
108                     } else {
109                         System.out.println("\nInvalid Input \nValid Inputs :(Y/N)\n");
110                         menu1ops();
111                     }
112                     break;
113
114                 default:
115                     System.out.println("\nInvalid Input \nValid Input Integers:(1-3)\n");

```

```
116         menu1ops();
117     }
118
119     while (true) {
120     }
121 }
122 //MENU 1 OPS ENDED
123 public static void menu2ops()
124 {
125     try (Scanner in = new Scanner(System.in)) {
126         do
127         {
128             String file = null;
129             String fileName = null;
130             int choice = 0;
131
132             menu2();
133
134             try {
135                 choice = Integer.parseInt(in.nextLine());
136             } catch (NumberFormatException e) {
137                 System.out.println("Invalid Input \nValid Input Integers:(1-4)");
138                 menu2ops();
139             }
140
141             switch (choice) {
142                 case 1:
143                     System.out.println("\n==> Adding a File...");
144                     System.out.println("Please enter a file name : ");
145                     file = in.nextLine();
146                     fileName = file.trim();
147                     try {
148                         Filehandle.createNewFile(path, fileName);
149                     } catch (NullPointerException e) {
150                         System.out.println(e.getMessage());
151                     } catch (IOException e) {
152                         System.out.println("Error occurred while adding file..");
153                         System.out.println("Please try again...");
154                     } catch (Exception e) {
155                         System.out.println("Error occurred while adding file..");
156                         System.out.println("Please try again...");
157                     }
158                     System.out.println("\n*****\n");
159                     break;
160
161                 case 2:
162                     System.out.println("\n==> Deleting a File...");
163                     System.out.println("Please enter a file name to Delete : ");
164                     file = in.nextLine();
165                     fileName = file.trim();
166                     try {
167                         Filehandle.deleteFile(path, file);
168                     } catch (NullPointerException e) {
169                         System.out.println(e.getMessage());
170                     } catch (IOException e) {
171                         System.out.println("Error occurred while Deleting File..");
172                     }
```

```
173         System.out.println("Please try again...");
174     } catch (Exception e) {
175         System.out.println("Error occurred while Deleting File..");
176         System.out.println("Please try again...");
177     }
178     System.out.println("\n*****\n");
179     break;
180
181 case 3:
182     System.out.println("\n==> Searching a File...");
183     System.out.println("Please enter a file name to Search : ");
184     file = in.nextLine();
185     fileName = file.trim();
186     try {
187         Filehandle.searchFile(path, fileName);
188     } catch (NullPointerException e) {
189         System.out.println(e.getMessage());
190     } catch (IllegalArgumentException e) {
191         System.out.println(e.getMessage());
192     } catch (Exception e) {
193         System.out.println(e.getMessage());
194     }
195     System.out.println("\n*****\n");
196     break;
197
198
199 case 4:
200     System.out.println("\n==> Reading a File...");
201     System.out.println("Please enter a file name to read : ");
202     file = in.nextLine();
203     fileName = file.trim();
204     try {
205         Filehandle.readFile(fileName, path);
206     } catch (NullPointerException e) {
207         System.out.println(e.getMessage());
208     } catch (IllegalArgumentException e) {
209         System.out.println(e.getMessage());
210     } catch (Exception e) {
211         System.out.println(e.getMessage());
212     }
213     System.out.println("\n*****\n");
214
215     break;
216
217
218
219 case 5 :
220     System.out.println("\n==> Writing to a File...");
221     System.out.println("Please enter a file name to write : ");
222     file = in.nextLine();
223     fileName = file.trim();
224     try {
225         Filehandle.writeFile(fileName, path);
226     } catch (NullPointerException e) {
227         System.out.println(e.getMessage());
228     } catch (IllegalArgumentException e) {
229         System.out.println(e.getMessage());
```

```
230         } catch (Exception e) {
231             System.out.println(e.getMessage());
232         }
233         System.out.println("\n*****\n");
234         break;
235
236     case 6 :
237         menu1ops();
238         break;
239
240     default:
241         System.out.println("Invalid Input \nValid Input Integers:(1-4)");
242         menu2ops();
243
244     }
245
246     file = null;
247     fileName = null;
248 } while (true);
249 }
250 }
251 public static void main (String args[])
252 {
253
254     maindisp();
255     menu1ops();
256
257 }
258 }
259 }
```