OOPM MINI-PROJECT REPORT (AY 2021-22)

➢ **PRESENTED BY:**

   ❖ **Group No. 2**

➢ **Group Members:**

   ❖ **Rahul Motwani (40)**
   ❖ **Malhar Kajale (26)**
   ❖ **Shreyas Sawant (55)**

➢ **Topic:**

   ❖ **Budget Manager**

➤ **Problem statement:** To implement an application purely based on Java, to manage the monthly expenses. Taking input from the user - their Name, monthly income (initially) based on which other inputs of new expenses with fields - expense name and expense amount are taken. The expense list can be viewed by the user and can also delete any expense if wanted. According to expenses, the monthly balance is shown to plan the month ahead.

Program to implement adding expense logic :

```java
1  package my.project;
2  import java.io.BufferedReader;
3  import java.util.LinkedList;
4  import java.io.IOException;
5  import java.nio.file.Files;
6  import java.nio.file.Path;
7  import java.io.File;
8  import java.io.FileWriter;
9  import java.io.BufferedWriter;
10 import java.io.FileNotFoundException;
11 import java.io.FileReader;
12 import java.io.*;
13
14
15
16 public class AddExp extends javax.swing.JFrame {
17
18
19     public AddExp() {
20         initComponents();
21     }
22
23
24     @SuppressWarnings("unchecked")
25     // <editor-fold defaultstate="collapsed" desc="Generated Code">
26     private void initComponents() {
27
28         jPanel1 = new javax.swing.JPanel();
29         jLabel1 = new javax.swing.JLabel();
30         jTextField1 = new javax.swing.JTextField();
31         jLabel2 = new javax.swing.JLabel();
32         jTextField2 = new javax.swing.JTextField();
33         jButton1 = new javax.swing.JButton();
34         jButton2 = new javax.swing.JButton();
35         jLabel3 = new javax.swing.JLabel();
36         jLabel4 = new javax.swing.JLabel();
37         jLabel5 = new javax.swing.JLabel();
38
39         setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
40         addMouseListener(new java.awt.event.MouseAdapter() {
41             public void mouseEntered(java.awt.event.MouseEvent evt) {
42                 formMouseEntered(evt);
43             }
44         });
45
46         jPanel1.setBorder(javax.swing.BorderFactory.createTitledBorder(null, "My Wallet", javax.swing.border.TitledBorder.DEFAULT_JUSTIFICATION,

javax.swing.border.TitledBorder.DEFAULT_POSITION, new java.awt.Font("Tahoma", 0, 24))); // NOI18N
```

```java
47          jPanel1.setToolTipText("");
48          jPanel1.addMouseListener(new java.awt.event.MouseAdapter() {
49              public void mouseClicked(java.awt.event.MouseEvent evt) {
50                  jPanel1MouseClicked(evt);
51              }
52              public void mouseEntered(java.awt.event.MouseEvent evt) {
53                  jPanel1MouseEntered(evt);
54              }
55              public void mouseExited(java.awt.event.MouseEvent evt) {
56                  jPanel1MouseExited(evt);
57              }
58          });
59
60          jLabel1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
61          jLabel1.setText("Enter expense name: ");
62
63          jTextField1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
64          jTextField1.addFocusListener(new java.awt.event.FocusAdapter() {
65              public void focusGained(java.awt.event.FocusEvent evt) {
66                  jTextField1FocusGained(evt);
67              }
68          });
69          jTextField1.addMouseListener(new java.awt.event.MouseAdapter() {
70              public void mouseEntered(java.awt.event.MouseEvent evt) {
71                  jTextField1MouseEntered(evt);
72              }
73          });
74          jTextField1.addActionListener(new java.awt.event.ActionListener() {
75              public void actionPerformed(java.awt.event.ActionEvent evt) {
76                  jTextField1ActionPerformed(evt);
77              }
78          });
79
80          jLabel2.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
81          jLabel2.setText("Enter expenditure: ");
82
83          jTextField2.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
84          jTextField2.addActionListener(new java.awt.event.ActionListener() {
85              public void actionPerformed(java.awt.event.ActionEvent evt) {
86                  jTextField2ActionPerformed(evt);
87              }
88          });
89
90          jButton1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
91          jButton1.setText("Proceed");
92          jButton1.addActionListener(new java.awt.event.ActionListener() {
93              public void actionPerformed(java.awt.event.ActionEvent evt) {
94                  jButton1ActionPerformed(evt);
95              }
96          });
97
98          jButton2.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
```

```java
 99            jButton2.setText("Exit");
100            jButton2.addActionListener(new java.awt.event.ActionListener() {
101                public void actionPerformed(java.awt.event.ActionEvent evt) {
102                    jButton2ActionPerformed(evt);
103                }
104            });

106            jLabel3.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

108            jLabel4.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

110            jLabel5.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

112            javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
113            jPanel1.setLayout(jPanel1Layout);
114            jPanel1Layout.setHorizontalGroup(
115                jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
116                .addGroup(jPanel1Layout.createSequentialGroup()
117                    .addContainerGap()
118                    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
119                        .addGroup(jPanel1Layout.createSequentialGroup()
120                            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
121                                .addGroup(jPanel1Layout.createSequentialGroup()
122                                    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
123                                        .addGroup(jPanel1Layout.createSequentialGroup()
124                                            .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 177, javax.swing.GroupLayout.PREFERRED_SIZE)
125                                            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
126                                            .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE, 273, javax.swing.GroupLayout.PREFERRED_SIZE))
127                                        .addGroup(jPanel1Layout.createSequentialGroup()
128                                            .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 177, javax.swing.GroupLayout.PREFERRED_SIZE)
129                                            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
130                                            .addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED_SIZE, 273, javax.swing.GroupLayout.PREFERRED_SIZE)))
131                                    .addGap(69, 69, 69))
132                                .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel1Layout.createSequentialGroup()
133                                    .addComponent(jButton1)
134                                    .addGap(18, 18, 18)))
135                            .addComponent(jButton2))
136                        .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE, 261, javax.swing.GroupLayout.PREFERRED_SIZE)
137                        .addGroup(jPanel1Layout.createSequentialGroup()
138                            .addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED_SIZE, 235, javax.swing.GroupLayout.PREFERRED_SIZE)
139                            .addGap(94, 94, 94)
140                            .addComponent(jLabel5, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)))
141                    .addContainerGap(58, Short.MAX_VALUE))
142            );
143            jPanel1Layout.setVerticalGroup(
144                jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
145                .addGroup(jPanel1Layout.createSequentialGroup()
146                    .addGap(18, 18, 18)
147                    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
148                        .addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED_SIZE, 23, javax.swing.GroupLayout.PREFERRED_SIZE)
149                        .addComponent(jLabel5))
150                    .addGap(18, 18, 18)
```

```java
                    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                        .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 33, javax.swing.GroupLayout.PREFERRED_SIZE))
                    .addGap(48, 48, 48)
                    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                        .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 33, javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                    .addGap(53, 53, 53)
                    .addComponent(jLabel3)
                    .addGap(45, 45, 45)
                    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                        .addComponent(jButton1)
                        .addComponent(jButton2))
                    .addContainerGap(69, Short.MAX_VALUE))
        );

        javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
        getContentPane().setLayout(layout);
        layout.setHorizontalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()
                .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addContainerGap())
        );
        layout.setVerticalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addContainerGap())
        );

        pack();
    }// </editor-fold>

    private void jTextField1ActionPerformed(java.awt.event.ActionEvent evt) {
        read();
    }

    private void jTextField2ActionPerformed(java.awt.event.ActionEvent evt) {

    }

    LinkedList<String> l = new LinkedList<String>();

    File f1 = new File("C:\\Users\\HOME\\Documents\\NetBeansProjects\\OOPM_Project_Test\\demo.txt");
    Double total_bal;
    String del_line;


    void demo() throws IOException
```

```java
203     {
204             FileWriter fileWritter = new FileWriter(f1.getName(),true);
205             BufferedWriter bw = new BufferedWriter(fileWritter);
206
207             if(!f1.exists()) {
208                 f1.createNewFile();
209             }
210
211
212                     for(int i = 0; i < l.size(); i++)
213                     {
214
215                         bw.write(l.get(i));
216                         bw.newLine();
217                         bw.close();
218                     }
219
220
221
222     }
223
224     void read()
225     {
226         try{
227
228             BufferedReader br = new BufferedReader(new FileReader(f1));
229
230
231             String st;
232             int count = 1;
233
234             while ((st = br.readLine()) != null)
235             {
236                 if(count == 1)
237                     jLabel4.setText("Name: " + st);
238                 else if(count == 2)
239                 {
240                     jLabel5.setText("Balance: Rs " +  st);
241                     del_line = st;
242                     total_bal = Double.parseDouble(st);
243                 }
244                 count++;
245             }
246
247
248
249             br.close();
250         }
251         catch(FileNotFoundException e)
252         {}
253         catch(Exception e)
254         {}
```

```java
255        }
256
257        public void replaceLines(String newS) {
258
259            String oldContent = "";
260
261            BufferedReader reader = null;
262
263            FileWriter writer = null;
264
265            try
266            {
267                reader = new BufferedReader(new FileReader(f1));
268
269
270
271                String line = reader.readLine();
272
273                while (line != null)
274                {
275                    oldContent = oldContent + line + System.lineSeparator();
276
277                    line = reader.readLine();
278                }
279
280
281
282                String newContent = oldContent.replaceAll(del_line, newS);
283
284
285
286                writer = new FileWriter(f1);
287
288                writer.write(newContent);
289            }
290            catch (IOException e)
291            {
292                e.printStackTrace();
293            }
294            finally
295            {
296                try
297                {
298
299
300                    reader.close();
301
302                    writer.close();
303                }
304                catch (IOException e)
305                {
306                    e.printStackTrace();
```

```java
307            }
308        }
309    }
310
311    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
312
313        double exp = 100;
314
315        String name = jTextField1.getText();
316        try{
317            exp = Double.parseDouble(jTextField2.getText());
318        }catch(NumberFormatException ex){
319            jTextField1.setText("");
320            jTextField2.setText("");
321            jLabel3.setText(exp + " Invalid Input! Try Again");
322        }
323
324
325
326        if(name.equals("") || exp < 0)
327        {
328
329            jTextField1.setText("");
330            jTextField2.setText("");
331            jLabel3.setText("Invalid Input! Try Again");
332
333        }
334        else
335        {
336            new Menu().setVisible(true);
337            this.dispose();
338        }
339
340        String combi =  name + " Rs " + exp;
341
342        total_bal -= exp;
343        String s = total_bal + "";
344        replaceLines(s);
345        l.add(combi);
346        try{
347        demo();
348        }
349        catch(IOException e){}
350    }
351
352
353
354
355
356    private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
357        f1.deleteOnExit();
358        System.exit(0);
```

```java
359
360        }
361
362        private void formMouseEntered(java.awt.event.MouseEvent evt) {
363
364        }
365
366        private void jPanel1MouseEntered(java.awt.event.MouseEvent evt) {
367            read();
368        }
369
370        private void jTextField1FocusGained(java.awt.event.FocusEvent evt) {
371            // TODO add your handling code here:
372        }
373
374        private void jPanel1MouseClicked(java.awt.event.MouseEvent evt) {
375    read();      }
376
377        private void jPanel1MouseExited(java.awt.event.MouseEvent evt) {
378
379        }
380
381        private void jTextField1MouseEntered(java.awt.event.MouseEvent evt) {
382            read();
383        }
384
385
386        public static void main(String args[]) {
387
388            java.awt.EventQueue.invokeLater(new Runnable() {
389                public void run() {
390                    AddExp a = new AddExp();
391                    a.setVisible(true);
392
393
394                }
395            });
396        }
397
398        // Variables declaration - do not modify
399        private javax.swing.JButton jButton1;
400        private javax.swing.JButton jButton2;
401        private javax.swing.JLabel jLabel1;
402        private javax.swing.JLabel jLabel2;
403        private javax.swing.JLabel jLabel3;
404        private javax.swing.JLabel jLabel4;
405        private javax.swing.JLabel jLabel5;
406        private javax.swing.JPanel jPanel1;
407        private javax.swing.JTextField jTextField1;
408        private javax.swing.JTextField jTextField2;
409        // End of variables declaration
```

```
410 }
411
```

Program to implement deleting expense logic:

```java
1
2  package my.project;
3  import java.util.*;
4  import java.io.BufferedReader;
5  import java.io.File;
6  import java.io.FileNotFoundException;
7  import java.io.FileReader;
8  import java.io.FileWriter;
9  import java.io.IOException;
10 import java.io.*;
11
12
13
14 public class DeleteExp extends javax.swing.JFrame {
15
16     File f1 = new File("C:\\Users\\HOME\\Documents\\NetBeansProjects\\OOPM_Project_Test\\demo.txt");
17     String del_line;
18     String deleted_line,replaceLine;
19     Double total_bal;
20
21     public DeleteExp() {
22         initComponents();
23     }
24
25
26     @SuppressWarnings("unchecked")
27     // <editor-fold defaultstate="collapsed" desc="Generated Code">
28     private void initComponents() {
29
30         jPanel1 = new javax.swing.JPanel();
31         jLabel1 = new javax.swing.JLabel();
32         jLabel2 = new javax.swing.JLabel();
33         jLabel3 = new javax.swing.JLabel();
34         jLabel4 = new javax.swing.JLabel();
35         jTextField1 = new javax.swing.JTextField();
36         jButton1 = new javax.swing.JButton();
37         jButton2 = new javax.swing.JButton();
38         jButton3 = new javax.swing.JButton();
39
40         setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
41
42         jPanel1.addAncestorListener(new javax.swing.event.AncestorListener() {
43             public void ancestorAdded(javax.swing.event.AncestorEvent evt) {
44             }
45             public void ancestorMoved(javax.swing.event.AncestorEvent evt) {
46                 jPanel1AncestorMoved(evt);
47             }
48             public void ancestorRemoved(javax.swing.event.AncestorEvent evt) {
49             }
```

```java
50          });
51          jPanel1.addMouseListener(new java.awt.event.MouseAdapter() {
52              public void mouseEntered(java.awt.event.MouseEvent evt) {
53                  jPanel1MouseEntered(evt);
54              }
55          });
56
57          jLabel1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
58
59          jLabel2.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
60
61          jLabel3.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
62          jLabel3.setAlignmentY(0.0F);
63
64          jLabel4.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
65          jLabel4.setText("Enter the index you want to delete: ");
66
67          jTextField1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
68
69          jButton1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
70          jButton1.setText("Menu");
71          jButton1.addActionListener(new java.awt.event.ActionListener() {
72              public void actionPerformed(java.awt.event.ActionEvent evt) {
73                  jButton1ActionPerformed(evt);
74              }
75          });
76
77          jButton2.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
78          jButton2.setText("Exit");
79          jButton2.addActionListener(new java.awt.event.ActionListener() {
80              public void actionPerformed(java.awt.event.ActionEvent evt) {
81                  jButton2ActionPerformed(evt);
82              }
83          });
84
85          jButton3.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
86          jButton3.setText("Delete");
87          jButton3.addActionListener(new java.awt.event.ActionListener() {
88              public void actionPerformed(java.awt.event.ActionEvent evt) {
89                  jButton3ActionPerformed(evt);
90              }
91          });
92
93          javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
94          jPanel1.setLayout(jPanel1Layout);
95          jPanel1Layout.setHorizontalGroup(
96              jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
97              .addGroup(jPanel1Layout.createSequentialGroup()
98                  .addGap(36, 36, 36)
99                  .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
100                     .addGroup(jPanel1Layout.createSequentialGroup()
101                         .addComponent(jLabel3, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
```

```java
102                            .addGap(190, 190, 190))
103                        .addGroup(jPanel1Layout.createSequentialGroup()
104                            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
105                                .addGroup(jPanel1Layout.createSequentialGroup()
106                                    .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 233, javax.swing.GroupLayout.PREFERRED_SIZE)
107                                    .addGap(71, 71, 71)
108                                    .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 234, javax.swing.GroupLayout.PREFERRED_SIZE))
109                                .addGroup(jPanel1Layout.createSequentialGroup()
110                                    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
111                                        .addGroup(jPanel1Layout.createSequentialGroup()
112                                            .addComponent(jLabel4)
113                                            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
114                                            .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE, 139, javax.swing.GroupLayout.PREFERRED_SIZE))
115                                        .addComponent(jButton1))
116                                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
117                                    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
118                                        .addComponent(jButton3, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
119                                        .addComponent(jButton2, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))))
120                            .addGap(0, 50, Short.MAX_VALUE))))
121        );
122        jPanel1Layout.setVerticalGroup(
123            jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
124            .addGroup(jPanel1Layout.createSequentialGroup()
125                .addGap(32, 32, 32)
126                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
127                    .addComponent(jLabel2, javax.swing.GroupLayout.DEFAULT_SIZE, 26, Short.MAX_VALUE)
128                    .addComponent(jLabel1, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
129                .addGap(18, 18, 18)
130                .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE, 228, javax.swing.GroupLayout.PREFERRED_SIZE)
131                .addGap(28, 28, 28)
132                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
133                    .addComponent(jLabel4)
134                    .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
135                    .addComponent(jButton3))
136                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 38, Short.MAX_VALUE)
137                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
138                    .addComponent(jButton2)
139                    .addComponent(jButton1))
140                .addGap(29, 29, 29))
141        );

143        javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
144        getContentPane().setLayout(layout);
145        layout.setHorizontalGroup(
146            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
147            .addGroup(layout.createSequentialGroup()
148                .addContainerGap()
149                .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
150                .addContainerGap())
151        );
152        layout.setVerticalGroup(
153            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
```

```java
154            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()
155                .addContainerGap()
156                .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
157                .addContainerGap())
158        );
159
160        pack();
161    }// </editor-fold>
162
163    private void jPanel1MouseEntered(java.awt.event.MouseEvent evt) {
164        try{
165
166        BufferedReader br = new BufferedReader(new FileReader(f1));
167        jLabel3.setText("<html>");
168
169        String st;
170        int count = 1;
171
172        while ((st = br.readLine()) != null)
173        {
174            if(count == 1)
175                jLabel1.setText("Name: " + st);
176            else if(count == 2)
177            {
178                total_bal = Double.parseDouble(st);
179                replaceLine = st;
180                jLabel2.setText("Balance: Rs "+ st);
181            }
182            else
183            {
184                st = (count - 2) + ".   " +st;
185                jLabel3.setText(jLabel3.getText() + st + "<br>");
186            }
187            count++;
188        }
189        jLabel3.setText(jLabel3.getText() + "</html>");
190
191
192        br.close();
193        }
194        catch(FileNotFoundException e)
195        {}
196        catch(Exception e)
197        {}
198    }
199    public void deleteLines() {
200
201        try{
202
203        File tempFile = new File("myTempFile.txt");
204
205        BufferedReader reader = new BufferedReader(new FileReader(f1));
```

```java
206        BufferedWriter writer = new BufferedWriter(new FileWriter(tempFile));
207
208        String lineToRemove = del_line;
209        String currentLine;
210
211        while((currentLine = reader.readLine()) != null) {
212
213
214            String trimmedLine = currentLine.trim();
215
216            if(trimmedLine.equals(lineToRemove))
217            {
218                deleted_line = currentLine;
219
220                continue;
221            }
222
223            writer.write(currentLine + System.getProperty("line.separator"));
224        }
225
226        writer.close();
227        reader.close();
228
229        f1.delete();
230        tempFile.renameTo(f1);
231        }catch(Exception e){}
232
233        String[] parts = deleted_line.split("Rs");
234        total_bal += Double.parseDouble(parts[1]);
235        replaceLines(Double.toString(total_bal));
236
237
238        try{
239
240        BufferedReader br = new BufferedReader(new FileReader(f1));
241        jLabel3.setText("<html>");
242
243        String st;
244        int count = 1;
245
246        while ((st = br.readLine()) != null)
247        {
248            if(count == 1)
249                jLabel1.setText("Name: " + st);
250            else if(count == 2)
251            {
252
253                jLabel2.setText("Balance: Rs "+ st);
254            }
255            else
256            {
257                st = (count - 2) + ".   " +st;
```

```java
258             jLabel3.setText(jLabel3.getText() + st + "<br>");
259         }
260         count++;
261     }
262     jLabel3.setText(jLabel3.getText() + "</html>");
263
264
265     br.close();
266     }
267     catch(FileNotFoundException e)
268     {}
269     catch(Exception e)
270     {}
271 }
272
273 public void replaceLines(String newS)
274 {
275
276     String oldContent = "";
277
278     BufferedReader reader = null;
279
280     FileWriter writer = null;
281
282     try
283     {
284         reader = new BufferedReader(new FileReader(f1));
285
286
287
288         String line = reader.readLine();
289
290         while (line != null)
291         {
292             oldContent = oldContent + line + System.lineSeparator();
293
294             line = reader.readLine();
295         }
296
297
298
299         String newContent = oldContent.replaceAll(replaceLine, newS);
300
301
302
303         writer = new FileWriter(f1);
304
305         writer.write(newContent);
306     }
307     catch (IOException e)
308     {
309         e.printStackTrace();
```

```java
310          }
311          finally
312          {
313              try
314              {
315
316
317                  reader.close();
318
319                  writer.close();
320              }
321              catch (IOException e)
322              {
323                  e.printStackTrace();
324              }
325          }
326      }
327      private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
328
329          Double index = Double.parseDouble(jTextField1.getText());
330          int count = 1;
331          try
332          {
333              BufferedReader br = new BufferedReader(new FileReader(f1));
334              String st;
335              while ((st = br.readLine()) != null)
336              {
337                  if(index+2 == count)
338                      del_line = st;
339                  count++;
340              }
341              br.close();
342          }
343          catch(Exception e){}
344          deleteLines();
345      }
346
347      private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
348          new Menu().setVisible(true);
349          this.dispose();
350      }
351
352      private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
353          f1.deleteOnExit();
354          System.exit(0);
355      }
356
357      private void jPanel1AncestorMoved(javax.swing.event.AncestorEvent evt) {
358          // TODO add your handling code here:
359      }
360
361
```

```java
362     public static void main(String args[]) {
363
364         java.awt.EventQueue.invokeLater(new Runnable() {
365             public void run() {
366                 new DeleteExp().setVisible(true);
367             }
368         });
369     }
370
371     // Variables declaration - do not modify
372     private javax.swing.JButton jButton1;
373     private javax.swing.JButton jButton2;
374     private javax.swing.JButton jButton3;
375     private javax.swing.JLabel jLabel1;
376     private javax.swing.JLabel jLabel2;
377     private javax.swing.JLabel jLabel3;
378     private javax.swing.JLabel jLabel4;
379     private javax.swing.JPanel jPanel1;
380     private javax.swing.JTextField jTextField1;
381     // End of variables declaration
382 }
383
```

Program to display the remaining balance and all the expenses :

```
1
2  package my.project;
3
4  import java.io.File;
5  import java.util.LinkedList;
6  import java.io.IOException;
7  import java.nio.file.Files;
8  import java.nio.file.Path;
9  import java.io.*;
10
11 public class Display extends javax.swing.JFrame{
12
13
14     File f1 = new File("C:\\Users\\HOME\\Documents\\NetBeansProjects\\OOPM_Project_Test\\demo.txt");
15     public Display() {
16         initComponents();
17     }
18
19
20     @SuppressWarnings("unchecked")
21     // <editor-fold defaultstate="collapsed" desc="Generated Code">
22     private void initComponents() {
23
24         jPanel1 = new javax.swing.JPanel();
25         jLabel1 = new javax.swing.JLabel();
26         jButton1 = new javax.swing.JButton();
27         jButton2 = new javax.swing.JButton();
28         jLabel2 = new javax.swing.JLabel();
29         jLabel3 = new javax.swing.JLabel();
30
31         setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
32
33         jPanel1.setBorder(javax.swing.BorderFactory.createTitledBorder(null, "Display", javax.swing.border.TitledBorder.DEFAULT_JUSTIFICATION,

javax.swing.border.TitledBorder.DEFAULT_POSITION, new java.awt.Font("Tahoma", 0, 18))); // NOI18N
34
35         jLabel1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
36         jLabel1.addMouseListener(new java.awt.event.MouseAdapter() {
37             public void mouseEntered(java.awt.event.MouseEvent evt) {
38                 jLabel1MouseEntered(evt);
39             }
```

```java
40          });
41
42          jButton1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
43          jButton1.setText("Menu");
44          jButton1.addActionListener(new java.awt.event.ActionListener() {
45              public void actionPerformed(java.awt.event.ActionEvent evt) {
46                  jButton1ActionPerformed(evt);
47              }
48          });
49
50          jButton2.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
51          jButton2.setText("Exit");
52          jButton2.setToolTipText("");
53          jButton2.addMouseListener(new java.awt.event.MouseAdapter() {
54              public void mousePressed(java.awt.event.MouseEvent evt) {
55                  jButton2MousePressed(evt);
56              }
57          });
58          jButton2.addActionListener(new java.awt.event.ActionListener() {
59              public void actionPerformed(java.awt.event.ActionEvent evt) {
60                  jButton2ActionPerformed(evt);
61              }
62          });
63
64          jLabel2.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
65
66          jLabel3.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
67
68          javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
69          jPanel1.setLayout(jPanel1Layout);
70          jPanel1Layout.setHorizontalGroup(
71              jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
72              .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel1Layout.createSequentialGroup()
73                  .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
74                  .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
75                      .addGroup(jPanel1Layout.createSequentialGroup()
76                          .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 495, javax.swing.GroupLayout.PREFERRED_SIZE)
77                          .addGap(98, 98, 98))
78                      .addGroup(jPanel1Layout.createSequentialGroup()
79                          .addComponent(jButton1)
80                          .addGap(52, 52, 52)
81                          .addComponent(jButton2)))
82                  .addGap(78, 78, 78))
83              .addGroup(jPanel1Layout.createSequentialGroup()
84                  .addGap(25, 25, 25)
```

```java
85                    .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 202, javax.swing.GroupLayout.PREFERRED_SIZE)
86                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
87                    .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE, 202, javax.swing.GroupLayout.PREFERRED_SIZE)
88                    .addGap(96, 96, 96))
89            );
90            jPanel1Layout.setVerticalGroup(
91                jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
92                .addGroup(jPanel1Layout.createSequentialGroup()
93                    .addGap(20, 20, 20)
94                    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
95                        .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 25, javax.swing.GroupLayout.PREFERRED_SIZE)
96                        .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE, 25, javax.swing.GroupLayout.PREFERRED_SIZE))
97                    .addGap(18, 18, 18)
98                    .addComponent(jLabel1, javax.swing.GroupLayout.DEFAULT_SIZE, 211, Short.MAX_VALUE)
99                    .addGap(18, 18, 18)
100                   .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
101                       .addComponent(jButton1)
102                       .addComponent(jButton2))
103                   .addGap(66, 66, 66))
104           );
105
106           javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
107           getContentPane().setLayout(layout);
108           layout.setHorizontalGroup(
109               layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
110               .addGroup(layout.createSequentialGroup()
111                   .addContainerGap()
112                   .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
113                   .addContainerGap())
114           );
115           layout.setVerticalGroup(
116               layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
117               .addGroup(layout.createSequentialGroup()
118                   .addContainerGap()
119                   .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
120                   .addContainerGap())
121           );
122
123           pack();
124       }// </editor-fold>
125
126       private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
127           new Menu().setVisible(true);
128           this.dispose();
129       }
```

```
130
131     private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
132
133         f1.deleteOnExit();
134         System.exit(0);
135
136     }
137
138
139     private void jLabel1MouseEntered(java.awt.event.MouseEvent evt) {
140
141
142
143         try{
144
145             BufferedReader br = new BufferedReader(new FileReader(f1));
146             jLabel1.setText("<html>");
147
148             String st;
149             int count = 1;
150
151             while ((st = br.readLine()) != null)
152             {
153                 if(count == 1)
154                     jLabel2.setText("Name: " + st);
155                 else if(count == 2)
156                     jLabel3.setText("Balance: Rs "+ st);
157                 else
158                 {
159                     st = (count - 2) + ".   " +st;
160                     jLabel1.setText(jLabel1.getText() + st + "<br>");
161                 }
162                 count++;
163             }
164             jLabel1.setText(jLabel1.getText() + "</html>");
165
166
167             br.close();
168         }
169         catch(FileNotFoundException e)
170         {}
171         catch(Exception e)
172         {}
173
174
```

```java
175
176        }
177
178        private void jButton2MousePressed(java.awt.event.MouseEvent evt) {
179
180        }
181
182
183
184
185        public static void main(String args[]) {
186
187            java.awt.EventQueue.invokeLater(new Runnable() {
188                public void run() {
189                    new Display().setVisible(true);
190                }
191            });
192        }
193
194        // Variables declaration - do not modify
195        private javax.swing.JButton jButton1;
196        private javax.swing.JButton jButton2;
197        private javax.swing.JLabel jLabel1;
198        private javax.swing.JLabel jLabel2;
199        private javax.swing.JLabel jLabel3;
200        private javax.swing.JPanel jPanel1;
201        // End of variables declaration
202 }
203
```

Program to implement menu :

```java
1
2  package my.project;
3  import java.io.File;
4  import java.util.LinkedList;
5  import java.io.IOException;
6  import java.nio.file.Files;
7  import java.nio.file.Path;
8  import java.io.*;
9  import java.io.File;
10
11 public class Menu extends javax.swing.JFrame {
12
13
14     public Menu() {
15         initComponents();
16     }
17     File f1 = new File("C:\\Users\\HOME\\Documents\\NetBeansProjects\\OOPM_Project_Test\\demo.txt");
18
19     @SuppressWarnings("unchecked")
20     // <editor-fold defaultstate="collapsed" desc="Generated Code">
21     private void initComponents() {
22
23         jPanel1 = new javax.swing.JPanel();
24         jButton1 = new javax.swing.JButton();
25         jButton2 = new javax.swing.JButton();
26         jButton3 = new javax.swing.JButton();
27         jButton4 = new javax.swing.JButton();
28         jLabel1 = new javax.swing.JLabel();
29         jLabel2 = new javax.swing.JLabel();
30
31         setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
32
33         jPanel1.setBorder(javax.swing.BorderFactory.createTitledBorder(null, "Menu", javax.swing.border.TitledBorder.DEFAULT_JUSTIFICATION,

javax.swing.border.TitledBorder.DEFAULT_POSITION, new java.awt.Font("Tahoma", 0, 24))); // NOI18N
34
35         jButton1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
36         jButton1.setText("Add Expense");
37         jButton1.addFocusListener(new java.awt.event.FocusAdapter() {
38             public void focusGained(java.awt.event.FocusEvent evt) {
```

```
39                    jButton1FocusGained(evt);
40                }
41            });
42            jButton1.addActionListener(new java.awt.event.ActionListener() {
43                public void actionPerformed(java.awt.event.ActionEvent evt) {
44                    jButton1ActionPerformed(evt);
45                }
46            });

48            jButton2.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
49            jButton2.setText("Display Wallet & Expense");
50            jButton2.addActionListener(new java.awt.event.ActionListener() {
51                public void actionPerformed(java.awt.event.ActionEvent evt) {
52                    jButton2ActionPerformed(evt);
53                }
54            });

56            jButton3.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
57            jButton3.setText("Delete Expense");
58            jButton3.addActionListener(new java.awt.event.ActionListener() {
59                public void actionPerformed(java.awt.event.ActionEvent evt) {
60                    jButton3ActionPerformed(evt);
61                }
62            });

64            jButton4.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
65            jButton4.setText("Exit");
66            jButton4.addActionListener(new java.awt.event.ActionListener() {
67                public void actionPerformed(java.awt.event.ActionEvent evt) {
68                    jButton4ActionPerformed(evt);
69                }
70            });

72            jLabel1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

74            jLabel2.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

76            javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
77            jPanel1.setLayout(jPanel1Layout);
78            jPanel1Layout.setHorizontalGroup(
79                jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
80                .addGroup(jPanel1Layout.createSequentialGroup()
81                    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
82                        .addGroup(jPanel1Layout.createSequentialGroup()
```

```java
 83                            .addGap(161, 161, 161)
 84                            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
 85                                .addComponent(jButton4, javax.swing.GroupLayout.PREFERRED_SIZE, 341, javax.swing.GroupLayout.PREFERRED_SIZE)
 86                                .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 341, javax.swing.GroupLayout.PREFERRED_SIZE)
 87                                .addComponent(jButton3, javax.swing.GroupLayout.PREFERRED_SIZE, 341, javax.swing.GroupLayout.PREFERRED_SIZE)
 88                                .addComponent(jButton2, javax.swing.GroupLayout.PREFERRED_SIZE, 341, javax.swing.GroupLayout.PREFERRED_SIZE)))
 89                        .addGroup(jPanel1Layout.createSequentialGroup()
 90                            .addGap(66, 66, 66)
 91                            .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 231, javax.swing.GroupLayout.PREFERRED_SIZE)
 92                            .addGap(71, 71, 71)
 93                            .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 221, javax.swing.GroupLayout.PREFERRED_SIZE)))
 94                    .addContainerGap(83, Short.MAX_VALUE))
 95            );
 96            jPanel1Layout.setVerticalGroup(
 97                jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
 98                .addGroup(jPanel1Layout.createSequentialGroup()
 99                    .addGap(51, 51, 51)
100                    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
101                        .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 20, javax.swing.GroupLayout.PREFERRED_SIZE)
102                        .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 20, javax.swing.GroupLayout.PREFERRED_SIZE))
103                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 48, Short.MAX_VALUE)
104                    .addComponent(jButton1)
105                    .addGap(18, 18, 18)
106                    .addComponent(jButton2)
107                    .addGap(18, 18, 18)
108                    .addComponent(jButton3)
109                    .addGap(18, 18, 18)
110                    .addComponent(jButton4)
111                    .addGap(98, 98, 98))
112            );

114            javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
115            getContentPane().setLayout(layout);
116            layout.setHorizontalGroup(
117                layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
118                .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()
119                    .addContainerGap()
120                    .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
121                    .addContainerGap())
122            );
123            layout.setVerticalGroup(
124                layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
125                .addGroup(layout.createSequentialGroup()
126                    .addContainerGap()
```

```
127                 .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
128                 .addContainerGap())
129         );
130
131         pack();
132     }// </editor-fold>
133
134     private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {
135
136         f1.deleteOnExit();
137         System.exit(0);
138
139     }
140
141     private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
142
143
144         new AddExp().setVisible(true);
145         this.dispose();
146
147     }
148
149     private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
150         new Display().setVisible(true);
151
152         this.dispose();
153     }
154
155     private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
156         new DeleteExp().setVisible(true);
157         this.dispose();
158     }
159
160     private void jButton1FocusGained(java.awt.event.FocusEvent evt) {
161
162
163         try{
164
165             BufferedReader br = new BufferedReader(new FileReader(f1));
166
167
168             String st;
169             int count = 1;
170
```

```java
171            while ((st = br.readLine()) != null)
172            {
173                if(count == 1)
174                    jLabel1.setText("Name: " + st);
175                else if(count == 2)
176                {
177                    jLabel2.setText("Balance: Rs " +  st);
178
179                }
180                count++;
181            }
182
183
184
185        br.close();
186        }
187    catch(FileNotFoundException e)
188    {}
189    catch(Exception e)
190    {}
191
192    }
193
194
195    public static void main(String args[]) {
196
197        java.awt.EventQueue.invokeLater(new Runnable() {
198            public void run() {
199                new Menu().setVisible(true);
200            }
201        });
202    }
203
204    // Variables declaration - do not modify
205    private javax.swing.JButton jButton1;
206    private javax.swing.JButton jButton2;
207    private javax.swing.JButton jButton3;
208    private javax.swing.JButton jButton4;
209    private javax.swing.JLabel jLabel1;
210    private javax.swing.JLabel jLabel2;
211    private javax.swing.JPanel jPanel1;
212    // End of variables declaration
213 }
214
```

Program to take total balance and name from the user:

```
1
2  package my.project;
3  import java.io.BufferedWriter;
4  import java.io.File;
5  import java.io.FileWriter;
6  import java.io.IOException;
7
8
9
10
11
12
13 public class ProjectUI extends javax.swing.JFrame {
14
15
16     public ProjectUI() {
17         initComponents();
18     }
19     File f1 = new File("C:\\Users\\HOME\\Documents\\NetBeansProjects\\OOPM_Project_Test\\demo.txt");
20
21     @SuppressWarnings("unchecked")
22     // <editor-fold defaultstate="collapsed" desc="Generated Code">
23     private void initComponents() {
24
25         jPanel1 = new javax.swing.JPanel();
26         jLabel1 = new javax.swing.JLabel();
27         jTextField1 = new javax.swing.JTextField();
28         jLabel2 = new javax.swing.JLabel();
29         jTextField2 = new javax.swing.JTextField();
30         jButton1 = new javax.swing.JButton();
31         jButton2 = new javax.swing.JButton();
32         jLabel3 = new javax.swing.JLabel();
33
34         setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
35
36         jPanel1.setBorder(javax.swing.BorderFactory.createTitledBorder(null, "My Wallet", javax.swing.border.TitledBorder.DEFAULT_JUSTIFICATION,

javax.swing.border.TitledBorder.DEFAULT_POSITION, new java.awt.Font("Tahoma", 0, 24))); // NOI18N
37         jPanel1.setToolTipText("");
38
39         jLabel1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
40         jLabel1.setText("Enter your name: ");
41
42         jTextField1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
43         jTextField1.addActionListener(new java.awt.event.ActionListener() {
44             public void actionPerformed(java.awt.event.ActionEvent evt) {
45                 jTextField1ActionPerformed(evt);
46             }
```

```java
47            });
48
49            jLabel2.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
50            jLabel2.setText("Enter your balance: ");
51
52            jTextField2.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
53            jTextField2.addActionListener(new java.awt.event.ActionListener() {
54                public void actionPerformed(java.awt.event.ActionEvent evt) {
55                    jTextField2ActionPerformed(evt);
56                }
57            });
58
59            jButton1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
60            jButton1.setText("Proceed");
61            jButton1.addActionListener(new java.awt.event.ActionListener() {
62                public void actionPerformed(java.awt.event.ActionEvent evt) {
63                    jButton1ActionPerformed(evt);
64                }
65            });
66
67            jButton2.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
68            jButton2.setText("Exit");
69            jButton2.addActionListener(new java.awt.event.ActionListener() {
70                public void actionPerformed(java.awt.event.ActionEvent evt) {
71                    jButton2ActionPerformed(evt);
72                }
73            });
74
75            jLabel3.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
76
77            javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
78            jPanel1.setLayout(jPanel1Layout);
79            jPanel1Layout.setHorizontalGroup(
80                jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
81                .addGroup(jPanel1Layout.createSequentialGroup()
82                    .addContainerGap()
83                    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
84                        .addGroup(jPanel1Layout.createSequentialGroup()
85                            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
86                                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
87                                    .addGroup(jPanel1Layout.createSequentialGroup()
88                                        .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 177, javax.swing.GroupLayout.PREFERRED_SIZE)
89                                        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
90                                        .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE, 273, javax.swing.GroupLayout.PREFERRED_SIZE))
91                                    .addGroup(jPanel1Layout.createSequentialGroup()
92                                        .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 177, javax.swing.GroupLayout.PREFERRED_SIZE)
93                                        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
94                                        .addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED_SIZE, 273, javax.swing.GroupLayout.PREFERRED_SIZE)))
95                                .addComponent(jButton1))
96                            .addGap(69, 69, 69)
97                            .addComponent(jButton2))
98                        .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE, 261, javax.swing.GroupLayout.PREFERRED_SIZE))
```

```
 99                     .addContainerGap(69, Short.MAX_VALUE))
100             );
101             jPanel1Layout.setVerticalGroup(
102                 jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
103                 .addGroup(jPanel1Layout.createSequentialGroup()
104                     .addGap(49, 49, 49)
105                     .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
106                         .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 33, javax.swing.GroupLayout.PREFERRED_SIZE)
107                         .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
108                     .addGap(72, 72, 72)
109                     .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
110                         .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 33, javax.swing.GroupLayout.PREFERRED_SIZE)
111                         .addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
112                     .addGap(53, 53, 53)
113                     .addComponent(jLabel3)
114                     .addGap(45, 45, 45)
115                     .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
116                         .addComponent(jButton1)
117                         .addComponent(jButton2))
118                     .addContainerGap(77, Short.MAX_VALUE))
119             );
120
121             javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
122             getContentPane().setLayout(layout);
123             layout.setHorizontalGroup(
124                 layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
125                 .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()
126                     .addContainerGap()
127                     .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
128                     .addContainerGap())
129             );
130             layout.setVerticalGroup(
131                 layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
132                 .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()
133                     .addContainerGap()
134                     .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
135                     .addContainerGap())
136             );
137
138             pack();
139         }// </editor-fold>
140
141         private void jTextField1ActionPerformed(java.awt.event.ActionEvent evt) {
142
143         }
144
145         private void jTextField2ActionPerformed(java.awt.event.ActionEvent evt) {
146
147         }
148
149         private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
150             f1.deleteOnExit();
```
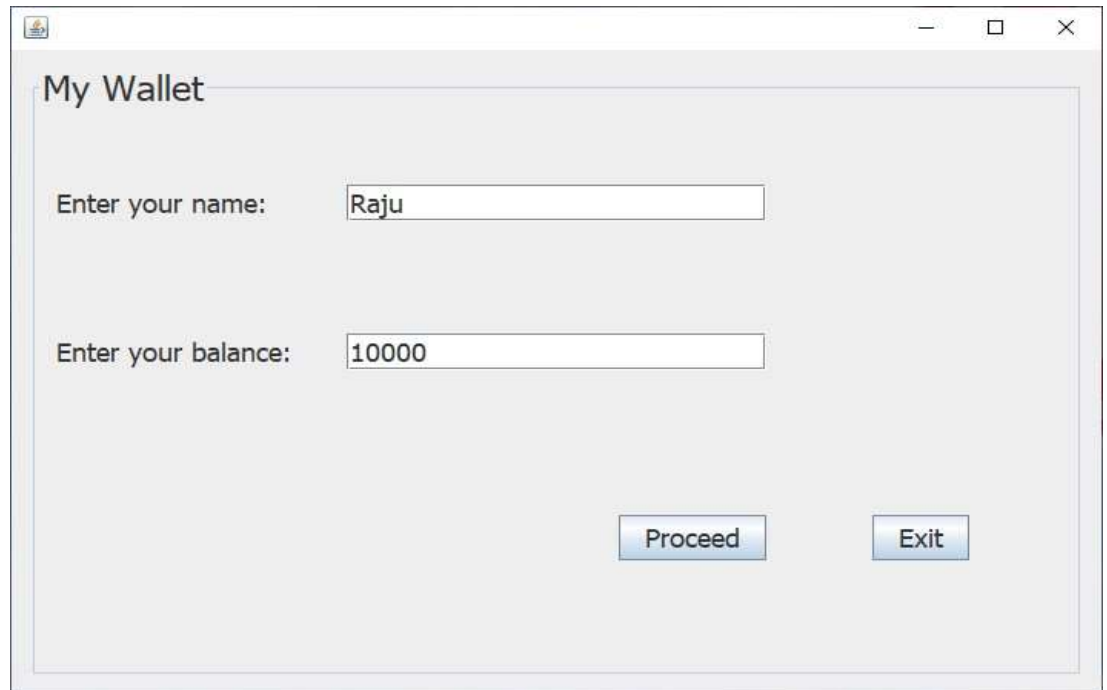
```java
151            System.exit(0);
152
153    }
154    static ProjectUI project = new ProjectUI();
155
156    void demo(String n, Double amt) throws IOException
157    {
158            FileWriter fileWritter = new FileWriter(f1.getName(),true);
159            BufferedWriter bw = new BufferedWriter(fileWritter);
160
161            if(!f1.exists()) {
162                f1.createNewFile();
163            }
164
165
166            bw.write(n);
167            String a = amt + "";
168            bw.newLine();
169            bw.write(a);
170            bw.newLine();
171            bw.close();
172            fileWritter.close();
173
174
175
176    }
177    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
178
179
180            double bal = 100;
181
182            String name = jTextField1.getText();
183            try{
184                bal = Double.parseDouble(jTextField2.getText());
185            }catch(NumberFormatException ex){
186                jTextField1.setText("");
187                jTextField2.setText("");
188                jLabel3.setText(bal + " Invalid Input! Try Again");
189            }
190            if(name.equals("") || bal < 0 )
191            {
192
193                jTextField1.setText("");
194                jTextField2.setText("");
195                jLabel3.setText("Invalid Input! Try Again");
196
197            }
198            else
199            {
200                new Menu().setVisible(true);
201                project.setVisible(false);
202            }
```
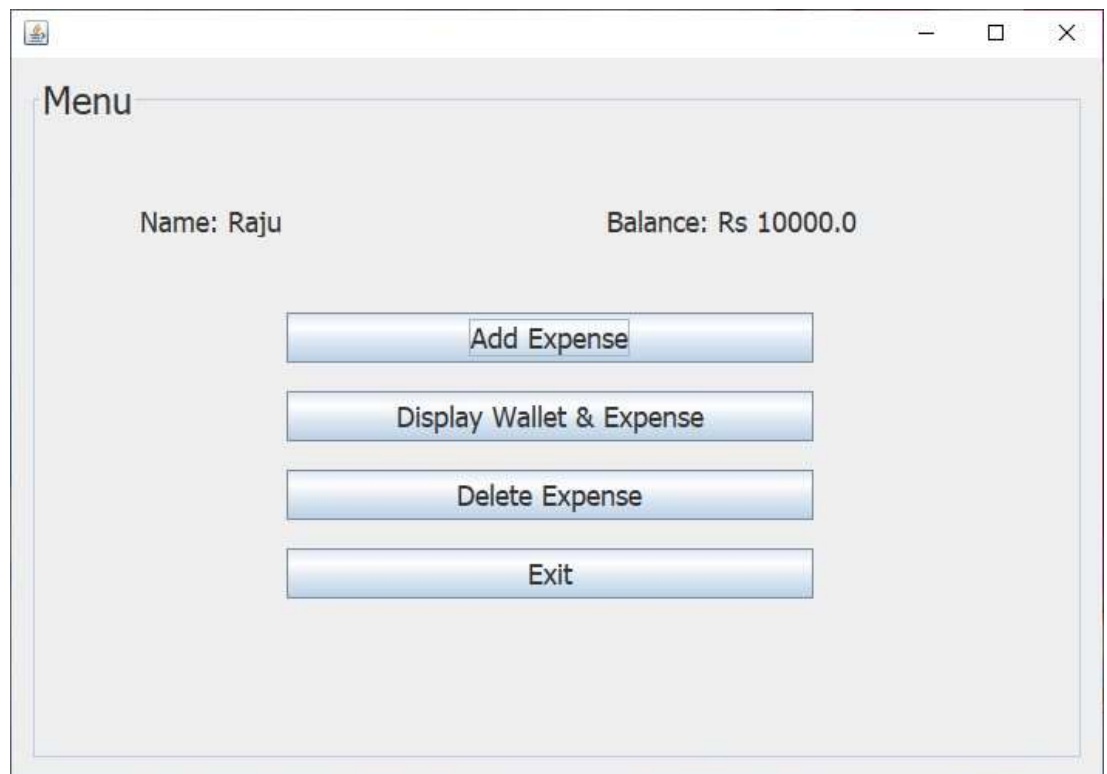
```java
203
204
205         try
206         {
207           demo(name,bal);
208         }
209         catch(IOException e)
210         {}
211
212
213
214     }
215
216
217     public static void main(String args[]) {
218
219         java.awt.EventQueue.invokeLater(new Runnable() {
220             public void run() {
221                 project.setVisible(true);
222             }
223         });
224     }
225
226     // Variables declaration - do not modify
227     private javax.swing.JButton jButton1;
228     private javax.swing.JButton jButton2;
229     private javax.swing.JLabel jLabel1;
230     private javax.swing.JLabel jLabel2;
231     private javax.swing.JLabel jLabel3;
232     private javax.swing.JPanel jPanel1;
233     private javax.swing.JTextField jTextField1;
234     private javax.swing.JTextField jTextField2;
235     // End of variables declaration
236 }
237
```

➢ **Output:**

● **Screenshots of working application:**

My Wallet

Name: Raju   Balance: Rs 10000.0

Enter expense name: food

Enter expenditure: 2000

                                        Proceed   Exit

Menu

Name: Raju   Balance: Rs 8000.0

Add Expense

Display Wallet & Expense

Delete Expense

Exit

Display

Name: Raju   Balance: Rs 7000.0

1. food Rs 2000.0
2. water Rs 1000.0

[Menu]   [Exit]

Name: Raju   Balance: Rs 7000.0

1. food Rs 2000.0
2. water Rs 1000.0

Enter the index you want to delete: [   ] [Delete]

[Menu]   [Exit]

Name: Raju   Balance: Rs 9000.0

1. water Rs 1000.0

Enter the index you want to delete: [1]   [Delete]

                                      [Menu] [Exit]