

A screenshot of a Java code editor, likely Eclipse or IntelliJ IDEA, showing the file `Billcalculator.java` in the `mypackage` package. The code defines a class `Billcalculator` with a static method `calculateBill` that calculates a bill amount based on units consumed. The code includes a warning at the bottom about a duplicate entry in the database.

```
1 package mypackage;
2
3 public class Billcalculator {
4     public static double calculateBill(double units) {
5         double amount = 0;
6         if (units <= 100) {
7             amount = units * 1.5;
8         } else if (units <= 200) {
9             amount = (100 * 1.5) + (units - 100) * 2.5;
10        } else if (units <= 300) {
11            amount = (100 * 1.5) + (100 * 2.5) + (units - 200) * 3.5;
12        } else {
13            amount = (100 * 1.5) + (100 * 2.5) + (100 * 3.5) + (units - 300) * 5.0;
14        }
15        return amount;
16    }
17 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Error: Duplicate entry '47' for key 'bills.PRIMARY'  
PS C:\Users\user\Desktop\java\_projects>

A screenshot of a Java code editor interface. The title bar says "java project". The tabs at the top show three files: "Main.java" (selected), "consumer.java" (with a red X), and "Billcalculator.java". The code area displays the following Java code:

```
My-first-repo > src > mypackage > consumer.java > consumer > getName()
1 package mypackage;
2
3 public class consumer {
4     String consumerName ;
5     int consumerID;
6     private double units ;
7     private double billAmount ;
8
9     public consumer(String name,int id ,double units ,double billAmount){
10         this.consumerName = name ;
11         this.consumerID = id ;
12         this.units = units ;
13         this.billAmount = billAmount ;
14     }
15     public String getConsumerName() {
16         return consumerName ;
17     }
18     public int getConsumerID() {
19         return consumerID ;
20     }
```

The bottom navigation bar includes tabs for PROBLEMS, OUTPUT, DEBUG CONSOLE, TERMINAL (selected), and PORTS. A message in the terminal tab reads: "Error: Duplicate entry '47' for key 'bills.PRIMARY'".

A screenshot of a Java code editor interface. The title bar says "java project". The left sidebar shows a file tree with "first-repo > src > mypackage > consumer.java" and "BillCalculator.java". The main editor area displays the "consumer.java" code:

```
1 package mypackage;
2
3 import java.util.*;
4
5 public class consumer {
6     String consumerName;
7     double consumerID;
8     double units;
9     double billAmount;
10
11     public void displayBill() {
12         System.out.println("Electricity Bill---");
13         System.out.println("ConsumerID : " + consumerID);
14         System.out.println("ConsumerName : " + consumerName);
15         System.out.println("UnitsConsumed : " + units);
16         System.out.println("Total Bill : " + billAmount);
17         System.out.println("----");
18     }
19
20     public String getName() {
21         return consumerName;
22     }
23 }
```

The code editor has a dark theme. Below the editor, there are tabs for PROBLEMS, OUTPUT, DEBUG CONSOLE, TERMINAL, and PORTS. The TERMINAL tab is selected, showing the following error message:

```
Error: Duplicate entry '47' for key 'bills.PRIMARY'
PS C:\Users\user\Desktop\java project> ^C
PS C:\Users\user\Desktop\java project>
PS C:\Users\user\Desktop\java project>
```

A screenshot of a Java code editor interface. The title bar says "java project". The tabs at the top show "Main.java" (marked with a yellow exclamation), "consumer.java" (marked with a red X), and "BillCalculator.java" (marked with a green U). The code editor displays the following Java code:

```
My-first-repo > src > mypackage > consumer.java > consumer
  1  public class consumer {
  2      public void displayBill() {
  3          System.out.println("ConsumerName : " +consumerName) ;
  4          System.out.println("UnitsConsumed : " + units) ;
  5          System.out.println("Total Bill : " + billAmount) ;
  6          System.out.println(x:"--");
  7      }
  8      public String getName() {
  9          return consumerName;
 10     }
 11     public int getId() {
 12         return consumerID;
 13     }
 14 }
```

The code editor has a status bar at the bottom with tabs for PROBLEMS, OUTPUT, DEBUG CONSOLE, TERMINAL, and PORTS. The TERMINAL tab is underlined, and the PORTS tab is visible. A tooltip "Error: Duplicate entry 'Main.java' in manifest" is shown near the bottom left.

The screenshot shows a Java development environment with the following details:

- Project Structure:** The project is named "java project". Inside the "src" directory, there is a package named "mypackage" which contains two files: "consumer.java" and "DBHandler.java".
- Code Editor:** The code editor displays the content of "DBHandler.java". The code defines a class "DBHandler" with a static final URL for a MySQL database, and a static method "saveToDB" that uses JDBC to insert data into a "bills" table.
- Terminal Output:** The terminal window at the bottom shows the command-line interface with the following logs:
  - A warning message: "Warning: Duplicate entry '47' for key 'bills.PRIMARY'"
  - The command: "C:\Users\user\Desktop\java project> ^C"
  - The command: "C:\Users\user\Desktop\java project> C:\> cd 'c:\Users\user\Desktop\java project'; & 'C:\Program Files\Java\jdk-24\bin\java -jar consumer.jar'"

A screenshot of a Java code editor interface. The title bar says "java project". The left sidebar shows three files: Main.java (U), consumer.java (U), and DBHandler.java (U). The DBHandler.java file is open and displayed in the main editor area. The code is a Java class named DBHandler with two static methods: saveToDB and readFromDB. The saveToDB method takes a consumer object, sets its bill amount to a database parameter, and prints a success message or an error message if a SQLException occurs. The readFromDB method connects to a database, executes a query to select all from the bills table, creates a statement, and then loops through the result set. The code editor has line numbers on the left. Below the editor, there are tabs for PROBLEMS, OUTPUT, DEBUG CONSOLE, TERMINAL (which is underlined), and PORTS. The terminal tab shows an error message: "Error: Duplicate entry '47' for key 'bills.PRIMARY'" followed by "PS C:\Users\user\Desktop\java project> ^C".

```
MyFile.java > src > mypackage > DBHandler.java > {} mypackage
7  public class DBHandler {
13     public static void saveToDB(consumer consumer) {
20         ps.setDouble(parameterIndex:4, consumer.getbillAmount());
21         ps.executeUpdate();
22         System.out.println(x:" Bill saved to database!");
23     } catch {SQLException e} {
24         System.out.println(" Error: " + e.getMessage());
25     }
26 }
27
28
29
30     public static List<consumer> readFromDB() {
31         List<consumer> consumers = new ArrayList<>();
32         try (Connection conn = DriverManager.getConnection(URL, USER, PASSWORD)) {
33             String query = "SELECT * FROM bills";
34             Statement stmt = conn.createStatement();
35             ResultSet rs = stmt.executeQuery(query);
36
37             while (rs.next()) {
```

PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS

Error: Duplicate entry '47' for key 'bills.PRIMARY'  
PS C:\Users\user\Desktop\java project> ^C

A screenshot of a Java code editor, likely Eclipse or IntelliJ IDEA, displaying the file `DBHandler.java`. The code implements a static method to read consumer data from a database. The code uses JDBC to execute a query and map the results to a list of `consumer` objects.

```
My-first-repo > src > mypackage > DBHandler.java > {} mypackage
public class DBHandler {
    public static List<consumer> readFromDB() {
        try {
            Statement statement = connection.createStatement();
            ResultSet rs = statement.executeQuery("SELECT * FROM consumers");
            List<consumer> consumers = new ArrayList<>();
            while (rs.next()) {
                int id = rs.getInt(columnLabel:"consumer_id");
                String name = rs.getString(columnLabel:"consumer_name");
                double units = rs.getDouble(columnLabel:"units");
                double bill = rs.getDouble(columnLabel:"bill_amount");
                consumers.add(new consumer(name, id, units, bill));
            }
        } catch (SQLException e) {
            System.out.println("⚠ Error reading from DB: " + e.getMessage());
        }
        return consumers;
    }
}
```

The code editor interface includes tabs for `Main.java`, `consumer.java`, and `DBHandler.java`, with `DBHandler.java` currently selected. The bottom navigation bar shows links for PROBLEMS, OUTPUT, DEBUG CONSOLE, TERMINAL, and PORTS.

A screenshot of a Java code editor interface. The title bar says "java project". The tabs at the top show "Main.java" (selected), "consumer.java", and "DBHandler.java". The code editor displays the following Java code:

```
My-first-repo > src > Main.java > ...
1  /*import javax.swing.*;
2  import java.awt.*;
3  import java.awt.event.*;
4  import java.util.List;
5  import mypackage.Billcalculator;
6  import mypackage.consumer;
7  import mypackage.DBHandler;
8
9  public class MainGUI extends JFrame {
10
11     private JTextField nameField, idField, unitsField;
12     private JTextArea outputArea;
13
14     public MainGUI() {
15         // Frame setup
16         setTitle("Electricity Bill Management System");
17         setSize(600, 500);
18         setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
19         setLayout(new BorderLayout());
20 }
```

The code uses Java Swing components like JTextField and JTextArea. It imports classes from the same package (mypackage) and external packages (javax.swing, java.awt, java.awt.event, java.util.List). The class MainGUI extends JFrame and contains fields for input fields and an output area, along with a constructor that sets up the frame's title, size, and layout.

java project

... J Main.java U ● J consumer.java U J DBHandler.java U

My-first-repo > src > J Main.java > ...

```
21     // Input Panel
22     JPanel inputPanel = new JPanel(new GridLayout(4, 2, 10, 10));
23
24     inputPanel.add(new JLabel("Consumer Name:"));
25     nameField = new JTextField();
26     inputPanel.add(nameField);
27
28     inputPanel.add(new JLabel("Consumer ID:"));
29     idField = new JTextField();
30     inputPanel.add(idField);
31
32     inputPanel.add(new JLabel("Units Consumed:"));
33     unitsField = new JTextField();
34     inputPanel.add(unitsField);
35
36     // Buttons
37     JButton generateBtn = new JButton("Generate Bill");
38     JButton viewBtn = new JButton("View Saved Bills");
39     JButton exitBtn = new JButton("Exit");
40
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Error: Duplicate entry '47' for key 'bills.PRIMARY'  
PS C:\Users\user\Desktop\Java\My-first-repo>

The screenshot shows a Java development environment with the following details:

- Project Bar:** Shows three files: `Main.java`, `consumer.java`, and `DBHandler.java`. `Main.java` is the active file.
- File Path:** My-first-repo > src > `Main.java`
- Code Preview:** The code is a Java Swing application. It includes imports for `JFrame`, `JPanel`, `JButton`, `JTextArea`, and `JScrollPane`. The class defines a constructor that sets up a frame with panels for input and output, and adds button listeners for generating and viewing bills.
- Terminal Tab:** The `TERMINAL` tab is selected, displaying the following error message:

```
Error: Duplicate entry '47' for key 'bills.PRIMARY'  
PS C:\Users\user\Desktop\java_projects>
```

A screenshot of a Java IDE interface. The title bar says "java project". The top menu bar has items like "File", "Edit", "Run", "Project", "Tools", "Help", and "About". Below the menu is a toolbar with icons for "New", "Open", "Save", "Build", "Run", and "Exit". The main workspace shows the file "Main.java" is open. The code editor displays the following Java code:

```
51     viewBtn.addActionListener(new ActionListener() {  
52         @Override  
53         public void actionPerformed(ActionEvent e) {  
54             viewBills();  
55         }  
56     });  
57  
58     exitBtn.addActionListener(e -> System.exit(0));  
59 }  
60  
61 private void generateBill() {  
62     try {  
63         String name = nameField.getText();  
64         int id = Integer.parseInt(idField.getText());  
65         double units = Double.parseDouble(unitsField.getText());  
66  
67         double billAmount = Billcalculator.calculateBill(units);  
68         consumer c = new consumer(name, id, units, billAmount);  
69  
70         // Display on screen  
71     } catch (Exception e) {  
72         e.printStackTrace();  
73     }  
74 }
```

The code implements a Java Swing application with two buttons: "viewBtn" and "exitBtn". The "viewBtn" button's action listener calls the "viewBills()" method. The "exitBtn" button's action listener exits the application. The "generateBill()" method handles the calculation of a bill amount based on user input from text fields for name, ID, and units, and creates a new "consumer" object.

A screenshot of a Java code editor interface. The title bar says "java project". The left sidebar shows a file tree with "Main.java U" (marked with a red dot), "consumer.java U", and "DBHandler.java U". The main editor area displays the following Java code:

```
>Main.java U ● consumer.java U DBHandler.java U
My-first-repo > src > Main.java > ...
1 // Display on screen
2 outputArea.setText("Generated Bill:\n");
3 outputArea.append("Name: " + name + "\n");
4 outputArea.append("ID: " + id + "\n");
5 outputArea.append("Units: " + units + "\n");
6 outputArea.append("Bill Amount: ₹" + billAmount + "\n");
7
8 // Save to DB
9 DBHandler.saveToDB(c);
10
11 JOptionPane.showMessageDialog(this, "Bill saved successfully!");
12 } catch (Exception ex) {
13     JOptionPane.showMessageDialog(this, "⚠ Invalid input. Try again.");
14 }
15
16 private void viewBills() {
17     outputArea.setText("--- Saved Bills ---\n");
18 }
```

The code handles bill generation and storage. It prints the bill details to a text area and saves them to a database using the DBHandler class. It also provides feedback to the user via JOptionPane dialogs.

A screenshot of a Java IDE interface. The title bar says "java project". The tabs at the top show "Main.java U" (with a red dot), "consumer.java U", and "DBHandler.java U". The main editor area displays the following Java code:

```
97     private void viewBills() {
98         outputArea.setText("--- Saved Bills ---\n");
99         List<consumer> consumers = DBHandler.readFromDB();
100        for (consumer c : consumers) {
101            outputArea.append(
102                "Name: " + c.getName() +
103                ", ID: " + c.getId() +
104                ", Units: " + c.getUnits() +
105                ", Bill: ₹" + c.getBillAmount() + "\n"
106            );
107        }
108    }
109
110    public static void main(String[] args) {
111        SwingUtilities.invokeLater(() -> {
112            new MainGUI().setVisible(true);
113        });
114    }
115 }*/
```

The code implements a `viewBills` method that outputs consumer information to a text area. It also contains a `main` method that creates a `MainGUI` instance and makes it visible.

At the bottom of the screen, there are tabs for "PROBLEMS", "OUTPUT", "DEBUG CONSOLE", "TERMINAL", and "PORTS". The "TERMINAL" tab is currently selected. A message in the terminal window reads:

Error: Duplicate entry '47' for key 'bills.PRIMARY'

java project

Main.java consumer.java DBHandler.java

My-first-repo > src > Main.java > ...

```
117 import javax.swing.*;
118 import java.awt.*;
119 import java.awt.event.*;
120 import java.util.List;
121 import mypackage.Billcalculator;
122 import mypackage.consumer;
123 import mypackage.DBHandler;
124
125 public class Main extends JFrame {
126
127     private JTextField nameField, idField, unitsField;
128     private JTextArea outputArea;
129
130     public Main() {
131         setTitle(title:"Electricity Bill Management System");
132         setSize(width:600, height:500);
133         setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
134         setLayout(new BorderLayout());
135
136         JPanel inputPanel = new JPanel(new GridLayout(rows:4, cols:2, hgap:10, vgap:10));
137
138         // Add components to inputPanel
139
140         add(inputPanel, "Center");
141
142         JButton calculateButton = new JButton("Calculate");
143         calculateButton.addActionListener(new ActionListener() {
144             public void actionPerformed(ActionEvent e) {
145                 // Logic to calculate bill
146             }
147         });
148
149         JPanel buttonPanel = new JPanel();
150         buttonPanel.add(calculateButton);
151
152         add(buttonPanel, "South");
153
154         pack();
155         setVisible(true);
156     }
157 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Error: Duplicate entry '47' for key 'bills.PRIMARY'

PS C:\Users\user\Desktop\java project> ^C

java project

Main.java consumer.java DBHandler.java

My-first-repo > src > Main.java > ...

```
125 public class Main extends JFrame {
130     public Main() {
136         JPanel inputPanel = new JPanel(new GridLayout(rows:4, cols:2, hgap:10, vgap:10));
137
138         inputPanel.add(new JLabel(text:"Consumer Name:"));
139         nameField = new JTextField();
140         inputPanel.add(nameField);
141
142         inputPanel.add(new JLabel(text:"Consumer ID:"));
143         idField = new JTextField();
144         inputPanel.add(idField);
145         ^
146         inputPanel.add(new JLabel(text:"Units Consumed:"));
147         unitsField = new JTextField();
148         inputPanel.add(unitsField);
149
150         JButton generateBtn = new JButton(text:"Generate Bill");
151         JButton viewBtn = new JButton(text:"View Saved Bills");
152         JButton exitBtn = new JButton(text:"Exit");
153 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Error: Duplicate entry '47' for key 'bills.PRIMARY'  
PS C:\Users\user\Desktop\java project> ^C

The screenshot shows a Java development environment with the following details:

- Project Structure:** The project is named "My-first-repo" and contains a "src" directory with files "Main.java", "consumerjava.java", and "DBHandler.java".
- Main.java Content:** The code defines a `Main` class that extends `JFrame`. It initializes components like `inputPanel`, `outputArea`, and `scrollPane`, and sets up the layout with `BorderLayout` and adds listeners to the `generateBtn`.
- Terminal Output:** The terminal shows an error message: "Error: Duplicate entry '47' for key 'bills.PRIMARY'" followed by three "PS" prompts.
- IDE Navigation:** The top bar includes a search field for "java project" and navigation icons for back, forward, and search.
- Bottom Bar:** A navigation bar with tabs for PROBLEMS, OUTPUT, DEBUG CONSOLE, TERMINAL (which is selected), and PORTS.

```
1 Main.java U 2 consumerjava.java U 3 DBHandler.java U
My-first-repo > src > 1 Main.java > ...
133 public class Main extends JFrame {
134     public Main() {
135         inputPanel.add(generateBtn);
136         inputPanel.add(viewBtn);
137
138         outputArea = new JTextArea();
139         outputArea.setEditable(false);
140         JScrollPane scrollPane = new JScrollPane(outputArea);
141
142         add(inputPanel, BorderLayout.NORTH);
143         add(scrollPane, BorderLayout.CENTER);
144         add(exitBtn, BorderLayout.SOUTH);
145
146         generateBtn.addActionListener(new ActionListener() {
147             @Override
148             public void actionPerformed(ActionEvent e) {
149                 generateBill();
150             }
151         });
152     }
153
154     private void generateBill() {
155         // Implementation of generateBill()
156     }
157
158     private void viewBill() {
159         // Implementation of viewBill()
160     }
161
162     private void exit() {
163         System.exit(0);
164     }
165
166     JButton generateBtn = new JButton("Generate Bill");
167     JButton viewBtn = new JButton("View Bill");
168     JButton exitBtn = new JButton("Exit");
169
170     JPanel inputPanel = new JPanel();
171
172     JTextArea outputArea;
173     JScrollPane scrollPane;
174
175     private void generateBill() {
176         // Implementation of generateBill()
177     }
178
179     private void viewBill() {
180         // Implementation of viewBill()
181     }
182
183     private void exit() {
184         System.exit(0);
185     }
186
187     JButton generateBtn = new JButton("Generate Bill");
188     JButton viewBtn = new JButton("View Bill");
189     JButton exitBtn = new JButton("Exit");
190
191     JPanel inputPanel = new JPanel();
192
193     JTextArea outputArea;
194     JScrollPane scrollPane;
195
196     private void generateBill() {
197         // Implementation of generateBill()
198     }
199
200     private void viewBill() {
201         // Implementation of viewBill()
202     }
203
204     private void exit() {
205         System.exit(0);
206     }
207
208     JButton generateBtn = new JButton("Generate Bill");
209     JButton viewBtn = new JButton("View Bill");
210     JButton exitBtn = new JButton("Exit");
211
212     JPanel inputPanel = new JPanel();
213
214     JTextArea outputArea;
215     JScrollPane scrollPane;
216
217     private void generateBill() {
218         // Implementation of generateBill()
219     }
220
221     private void viewBill() {
222         // Implementation of viewBill()
223     }
224
225     private void exit() {
226         System.exit(0);
227     }
228
229     JButton generateBtn = new JButton("Generate Bill");
230     JButton viewBtn = new JButton("View Bill");
231     JButton exitBtn = new JButton("Exit");
232
233     JPanel inputPanel = new JPanel();
234
235     JTextArea outputArea;
236     JScrollPane scrollPane;
237
238     private void generateBill() {
239         // Implementation of generateBill()
240     }
241
242     private void viewBill() {
243         // Implementation of viewBill()
244     }
245
246     private void exit() {
247         System.exit(0);
248     }
249
250     JButton generateBtn = new JButton("Generate Bill");
251     JButton viewBtn = new JButton("View Bill");
252     JButton exitBtn = new JButton("Exit");
253
254     JPanel inputPanel = new JPanel();
255
256     JTextArea outputArea;
257     JScrollPane scrollPane;
258
259     private void generateBill() {
260         // Implementation of generateBill()
261     }
262
263     private void viewBill() {
264         // Implementation of viewBill()
265     }
266
267     private void exit() {
268         System.exit(0);
269     }
270
271     JButton generateBtn = new JButton("Generate Bill");
272     JButton viewBtn = new JButton("View Bill");
273     JButton exitBtn = new JButton("Exit");
274
275     JPanel inputPanel = new JPanel();
276
277     JTextArea outputArea;
278     JScrollPane scrollPane;
279
280     private void generateBill() {
281         // Implementation of generateBill()
282     }
283
284     private void viewBill() {
285         // Implementation of viewBill()
286     }
287
288     private void exit() {
289         System.exit(0);
290     }
291
292     JButton generateBtn = new JButton("Generate Bill");
293     JButton viewBtn = new JButton("View Bill");
294     JButton exitBtn = new JButton("Exit");
295
296     JPanel inputPanel = new JPanel();
297
298     JTextArea outputArea;
299     JScrollPane scrollPane;
300
301     private void generateBill() {
302         // Implementation of generateBill()
303     }
304
305     private void viewBill() {
306         // Implementation of viewBill()
307     }
308
309     private void exit() {
310         System.exit(0);
311     }
312
313     JButton generateBtn = new JButton("Generate Bill");
314     JButton viewBtn = new JButton("View Bill");
315     JButton exitBtn = new JButton("Exit");
316
317     JPanel inputPanel = new JPanel();
318
319     JTextArea outputArea;
320     JScrollPane scrollPane;
321
322     private void generateBill() {
323         // Implementation of generateBill()
324     }
325
326     private void viewBill() {
327         // Implementation of viewBill()
328     }
329
330     private void exit() {
331         System.exit(0);
332     }
333
334     JButton generateBtn = new JButton("Generate Bill");
335     JButton viewBtn = new JButton("View Bill");
336     JButton exitBtn = new JButton("Exit");
337
338     JPanel inputPanel = new JPanel();
339
340     JTextArea outputArea;
341     JScrollPane scrollPane;
342
343     private void generateBill() {
344         // Implementation of generateBill()
345     }
346
347     private void viewBill() {
348         // Implementation of viewBill()
349     }
350
351     private void exit() {
352         System.exit(0);
353     }
354
355     JButton generateBtn = new JButton("Generate Bill");
356     JButton viewBtn = new JButton("View Bill");
357     JButton exitBtn = new JButton("Exit");
358
359     JPanel inputPanel = new JPanel();
360
361     JTextArea outputArea;
362     JScrollPane scrollPane;
363
364     private void generateBill() {
365         // Implementation of generateBill()
366     }
367
368     private void viewBill() {
369         // Implementation of viewBill()
370     }
371
372     private void exit() {
373         System.exit(0);
374     }
375
376     JButton generateBtn = new JButton("Generate Bill");
377     JButton viewBtn = new JButton("View Bill");
378     JButton exitBtn = new JButton("Exit");
379
380     JPanel inputPanel = new JPanel();
381
382     JTextArea outputArea;
383     JScrollPane scrollPane;
384
385     private void generateBill() {
386         // Implementation of generateBill()
387     }
388
389     private void viewBill() {
390         // Implementation of viewBill()
391     }
392
393     private void exit() {
394         System.exit(0);
395     }
396
397     JButton generateBtn = new JButton("Generate Bill");
398     JButton viewBtn = new JButton("View Bill");
399     JButton exitBtn = new JButton("Exit");
400
401     JPanel inputPanel = new JPanel();
402
403     JTextArea outputArea;
404     JScrollPane scrollPane;
405
406     private void generateBill() {
407         // Implementation of generateBill()
408     }
409
410     private void viewBill() {
411         // Implementation of viewBill()
412     }
413
414     private void exit() {
415         System.exit(0);
416     }
417
418     JButton generateBtn = new JButton("Generate Bill");
419     JButton viewBtn = new JButton("View Bill");
420     JButton exitBtn = new JButton("Exit");
421
422     JPanel inputPanel = new JPanel();
423
424     JTextArea outputArea;
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10
```

```
J Main.java U ● J consumer.java U J DBHandler.java U
My-first-repo > src > J Main.java > ...
168
169     public class Main extends JFrame {
170         public Main() {
171             viewBtn.addActionListener(new ActionListener() {
172                 @Override
173                 public void actionPerformed(ActionEvent e) {
174                     viewBills();
175                 }
176             });
177         }
178
179         exitBtn.addActionListener(_ -> System.exit(status:0));
180     }
181
182     private void generateBill() {
183         try {
184             String name = nameField.getText();
185             int id = Integer.parseInt(idField.getText());
186             double units = Double.parseDouble(unitsField.getText());
187
188             double billAmount = Billcalculator.calculateBill(units);
189         }
190     }
191 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Error: Duplicate entry '47' for key 'bills.PRIMARY'

PS C:\Users\user\Desktop\java project> ^C

PS C:\Users\user\Desktop\java project>

PS C:\Users\user\Desktop\java project> c:: cd 'c:\Users\user\Desktop\java project'; & 'C:\Program Files\Java\jre1.8.0\_131\bin\java.exe' '@C:\Users\user\AppData\Local\Temp\cp\_9rcx2h1jcqsu6z4dl4xkyrxn1.argfile' 'Main'

Bill saved to database!

A screenshot of a Java IDE interface, likely Eclipse or IntelliJ IDEA, showing the code for a Java project named "java project". The main window displays the file "Main.java" with the following content:

```
125 public class Main extends JFrame {
126     private void generateBill() {
127         double billAmount = Billcalculator.calculateBill(units);
128         consumer c = new consumer(name, id, units, billAmount); // Changed from 'consumer' to 'Consumer'
129
130         outputArea.setText(t:"Generated Bill:\n");
131         outputArea.append("Name: " + name + "\n");
132         outputArea.append("ID: " + id + "\n");
133         outputArea.append("Units: " + units + "\n");
134         outputArea.append(String.format(format:"Bill Amount: ₹%.2f\n", billAmount));
135
136         DBHandler.saveToDB(c);
137
138         JOptionPane.showMessageDialog(this, message:"Bill saved successfully!");
139
140     } catch (NumberFormatException ex) {
141         JOptionPane.showMessageDialog(this, message:"⚠ Invalid number format. Please enter valid number");
142     } catch (Exception ex) {
143         JOptionPane.showMessageDialog(this, message:"⚠ Invalid input. Try again.");
144     }
145 }
```

The code implements a `Main` class that generates a bill and saves it to a database. It uses `JFrame`, `Billcalculator`, `consumer`, `outputArea`, `DBHandler`, and `JOptionPane` classes. There are some TODO comments in the code.

Below the code editor, the terminal tab shows the following error message:

```
Error: Duplicate entry '47' for key 'bills.PRIMARY'  
PS C:\Users\user\Desktop\java project> ^C  
PS C:\Users\user\Desktop\java project>
```

The screenshot shows a Java development environment with the following details:

- Project Structure:** The project is named "java project". It contains three files: "Main.java" (the current file), "consumer.java", and "DBHandler.java".
- Main.java Content:** The code is as follows:

```
public class Main extends JFrame {
    private void generateBill() {
    }

    private void viewBills() {
        outputArea.setText(t:"--- Saved Bills ---\n");
        List<consumer> consumers = DBHandler.readFromDB(); // Changed from 'consumer' to 'Consumer'
        for (consumer c : consumers) {
            outputArea.append(
                "Name: " + c.getName() +
                ", ID: " + c.getId() +
                ", Units: " + c.getUnits() +
                String.format(format:", Bill: ₹%.2f\n", c.getbillAmount())
            );
        }
    }
}
```

- Terminal Output:** The terminal shows the following error message:

```
Error: Duplicate entry '47' for key 'bills.PRIMARY'
```

A screenshot of a Java code editor, likely Eclipse or IntelliJ IDEA, displaying the file `Main.java`. The code defines a `Main` class that extends `JFrame`. It contains a `main` method that creates and displays an instance of `Main`. The code is annotated with line numbers (125, 208, 219, 220, 221, 222, 223, 224, 225, 226) and includes a cursor at the end of the file.

```
My-first-repo > src > Main.java > ...
125 public class Main extends JFrame {
208     private void viewBills() {
219     }
220
221     public static void main(String[] args) {
222         SwingUtilities.invokeLater(() -> {
223             new Main().setVisible(b:true);
224         });
225     }
226 }
```

The status bar at the bottom shows tabs for PROBLEMS, OUTPUT, DEBUG CONSOLE, TERMINAL, and PORTS. The PROBLEMS tab is currently selected.



Electricity Bill Management System

Consumer Name:

Ashmika S

Consumer ID:

1525

Units Consumed:

180

Generate Bill

View Saved Bills

Generated Bill:

Name: Ashmika S

ID: 1525

Units: 180.0

Bill Amount: ₹350.00

Message



Bill saved successfully!

OK

Exit

PS C:\Users\user\Desktop\java project  
\_9rcx2hd1jcqsu6z4dl4xkyrxn1.argfile  
Bill saved to database!

> OUTLINE

> TIMELINE

✓ JAVA PROJECTS

✓ [ ] java project

  ✓ [ ] My-first-repo/src

    > { } mypackage

      ↳ Main

    > [ ] JRE System Library [JavaSE-24]

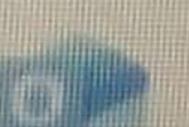
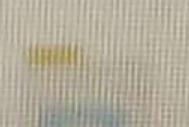
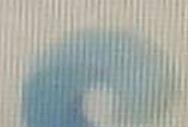
    ↳ [ ] JRE System Library [JavaSE-24]



↳ main\* ↳ 0 △ 0 ↳ Java: Ready



Type here to search



# Electricity Bill Management System

Consumer Name:

Shreemaye

Consumer ID:

5745

Units Consumed:

234

Generate Bill

View Saved Bills

Generated Bill:

Name: Shreemaye

ID: 5745

Units: 234.0

Bill Amount: ₹519.00

Message

X



Bill saved successfully!

OK

Exit

> OUTLINE

> TIMELINE

✓ JAVA PROJECTS

✓ java project

✓ My-first-repo/src

> () mypackage

Main

•

•

•

+ u

> JRE System Library [JavaSE-24]

> Dependencies

✗ main\* ⏪ ⏴ ⏵ 0 △ 0 ⏶ Java: Ready

PS C:\Users\user\Desktop\java project>

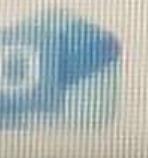
\_9ncx2h1jcqsu6z4dl4xdyxxnl.argfile' 'Ma

Bill saved to database!

Bill saved to database!



Type here to search



# Electricity Bill Management System

Consumer Name:

V P Sreelakshmi

Consumer ID:

6307

Units Consumed:

175

Generate Bill

View Saved Bills

Generated Bill:

Name: V P Sreelakshmi

ID: 6307

Units: 175.0

Bill Amount ₹337.50

Message



Bill saved successfully!

OK

Exit

```
PS C:\Users\user\Desktop\java project> 9rcx2h1jcqsu6z4dl4xkyrxn1.argfile' 'Main
Bill saved to database!
Bill saved to database!
Bill saved to database!
```

> OUTLINE

> TIMELINE

✓ JAVA PROJECTS

✓ java project

✓ My-first-repo/src

> {} mypackage

>Main

+



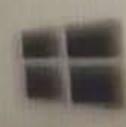
> JRE System Library [JavaSE-24]

> Dependencies

main\*

0 △ 0

Java: Ready



Type here to search





## Electricity Bill Management System

Consumer Name:

Sreelakshmi P

Consumer ID:

5934

Units Consumed:

412

**Generate Bill**

**View Saved Bills**

— Saved Bills —

Name: vp, ID: 34, Units: 78.0, Bill: ₹117.00  
Name: VP, ID: 47, Units: 80.0, Bill: ₹120.00  
Name: VP, ID: 54, Units: 23.0, Bill: ₹34.50  
Name: sree, ID: 90, Units: 569.0, Bill: ₹2095.00  
Name: Ashmika S, ID: 1525, Units: 180.0, Bill: ₹350.00  
Name: Shreemaye, ID: 5745, Units: 234.0, Bill: ₹519.00  
Name: Sreelakshmi P, ID: 5934, Units: 412.0, Bill: ₹1310.00  
Name: V P Sreelakshmi, ID: 6307, Units: 175.0, Bill: ₹337.50

Exit

> OUTLINE

> TIMELINE

✓ JAVA PROJECTS

  ✓ [pj] java project

    ✓ [f] My-first-repo/src

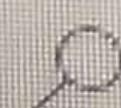
      > {m} mypackage

      ↳ Main

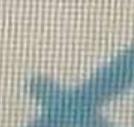
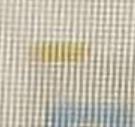
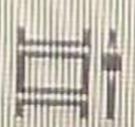
      > [lib] JRE System Library [JavaSE-24]



main\* ↦ 0 △ 0 ↶ Java: Ready



Type here to search



PS C:\Users\user\Desktop\java project>  
\_9rcx2h1jcqsu6z4dl4xkyrxn1.argfile' 'M

Bill saved to database!

Bill saved to database!

Bill saved to database!

Bill saved to database!