Group Name

Project Title

- **Budget Planner**

Group Members Matric Numbers and Names

1. **Praise Ikenna Onyeaghala** **BHU/22/04/05/0092**
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3. **Samson Praise Chidera** **BHU/22/04/09/0028**
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5. **Kashim samaila** **BHU/22/04/05/0068**

Project Description and Screenshots

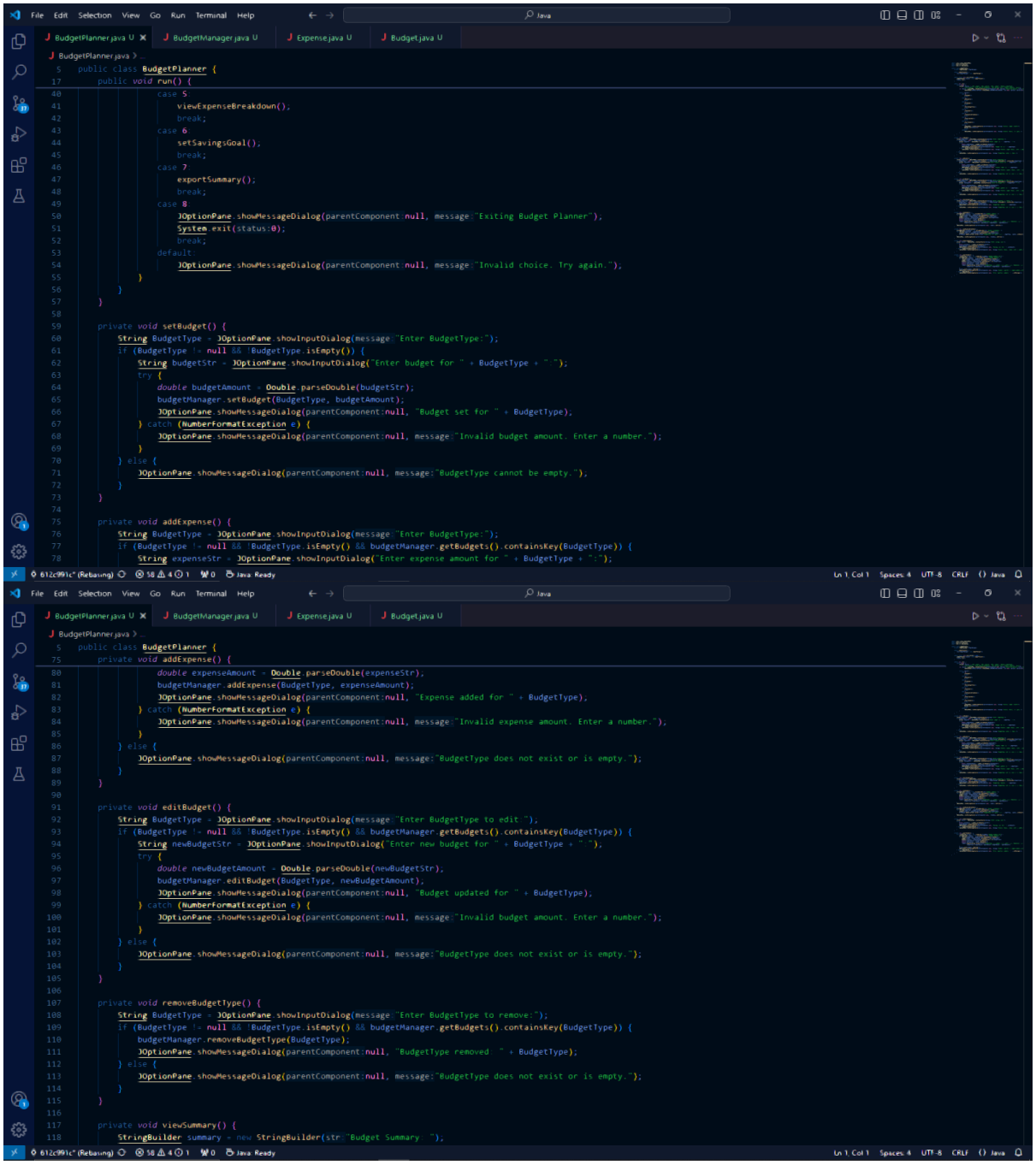
The Budget Planner app is a basic Java program that helps you manage your money. It allows you to set budgets, track expenses, and view financial summaries. The app uses a simple graphical interface with pop-up windows for interacting with the user. Its main parts include:

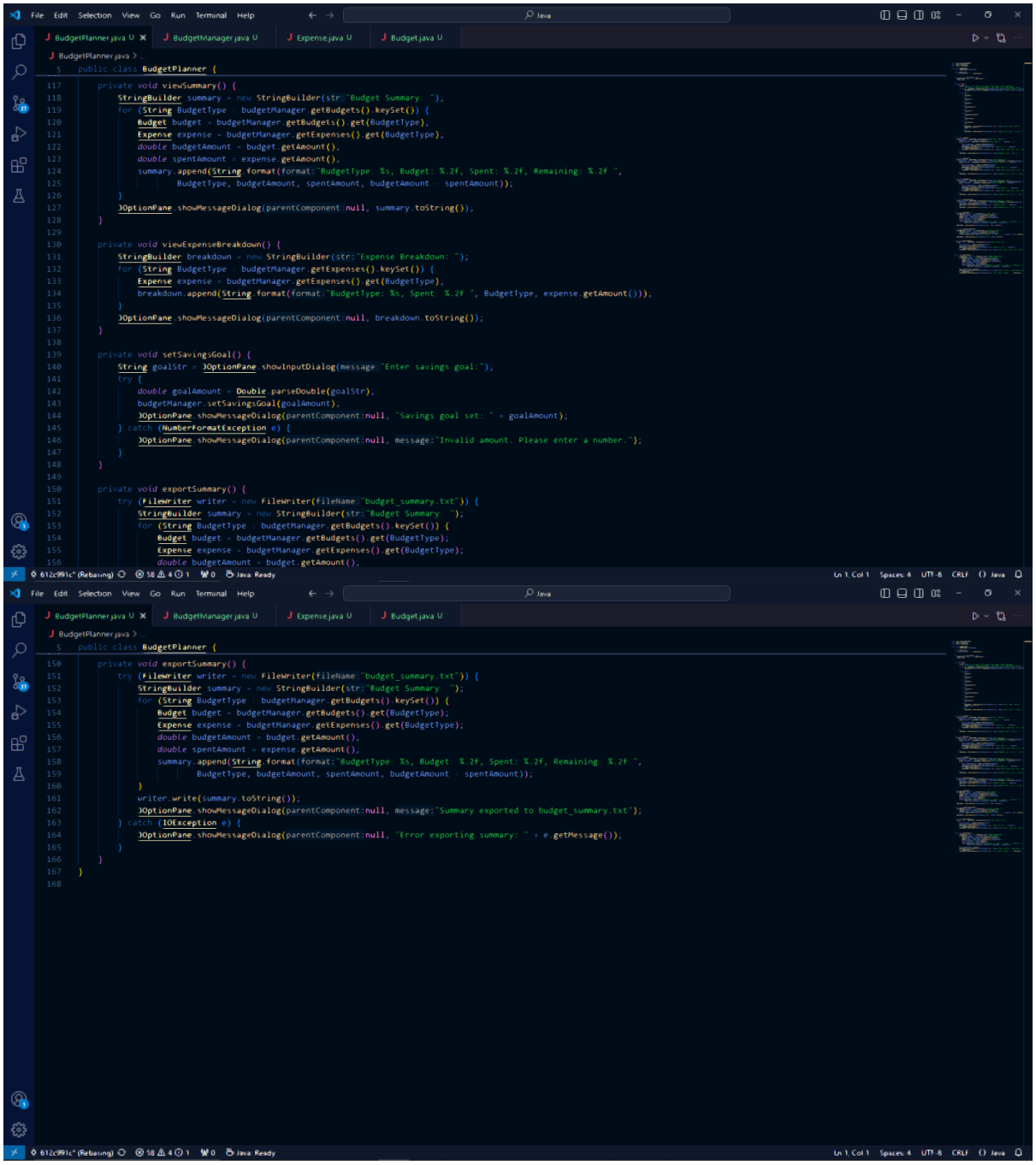
1. **BudgetPlanner**: The main part of the app that provides the user interface. It lets you do things like set budgets, add expenses, edit budgets, remove categories, view summaries, set savings goals, view expense breakdowns, and export summaries.

2. **BudgetManager**: This part handles the budgets and expenses. It stores data in collections and lets you do things like set budgets, add expenses, edit budgets, remove categories, and set savings goals.

3. **Budget**: This represents a budget for a specific category. It has details about the category and the budgeted amount.

4. **Expense**: This represents expenses for a specific category. It has details about the category and the total amount spent. The app is created using Object-Oriented Programming (OOP) principles. This makes it modular, easy to maintain, and simple to add new features.


File Edit Selection View Go Run Terminal Help
Java
BudgetPlanner.java U
BudgetManager.java U
Expense.java U
Budget.java U
BudgetPlanner.java
public class BudgetPlanner {
public void run() {
case 5:
viewExpenseBreakdown();
break;
case 6:
setSavingsGoal();
break;
case 7:
exportSummary();
break;
case 8:
JOptionPane.showMessageDialog(parentComponent:null, message:"Exiting Budget Planner");
System.exit(status:0);
break;
default:
JOptionPane.showMessageDialog(parentComponent:null, message:"Invalid choice. Try again.");
}
}
}
private void setBudget() {
String BudgetType = JOptionPane.showInputDialog(message:"Enter BudgetType:");
if (BudgetType != null && !BudgetType.isEmpty()) {
String budgetStr = JOptionPane.showInputDialog("Enter budget for " + BudgetType + ":");
try {
double budgetAmount = Double.parseDouble(budgetStr);
budgetManager.setBudget(BudgetType, budgetAmount);
JOptionPane.showMessageDialog(parentComponent:null, "Budget set for " + BudgetType);
} catch (NumberFormatException e) {
JOptionPane.showMessageDialog(parentComponent:null, message:"Invalid budget amount. Enter a number.");
}
} else {
JOptionPane.showMessageDialog(parentComponent:null, message:"BudgetType cannot be empty.");
}
}
private void addExpense() {
String BudgetType = JOptionPane.showInputDialog(message:"Enter BudgetType:");
if (BudgetType != null && !BudgetType.isEmpty() && budgetManager.getBudgets().containsKey(BudgetType)) {
String expenseStr = JOptionPane.showInputDialog("Enter expense amount for " + BudgetType + ":");
612c991c* (Rebasing)
Java Ready
Ln 1, Col 1
Spaces: 4
UTF-8
CRLF
Java
File Edit Selection View Go Run Terminal Help
Java
BudgetPlanner.java U
BudgetManager.java U
Expense.java U
Budget.java U
BudgetPlanner.java
public class BudgetPlanner {
private void addExpense() {
double expenseAmount = Double.parseDouble(expenseStr);
budgetManager.addExpense(BudgetType, expenseAmount);
JOptionPane.showMessageDialog(parentComponent:null, "Expense added for " + BudgetType);
} catch (NumberFormatException e) {
JOptionPane.showMessageDialog(parentComponent:null, message:"Invalid expense amount. Enter a number.");
}
} else {
JOptionPane.showMessageDialog(parentComponent:null, message:"BudgetType does not exist or is empty.");
}
}
private void editBudget() {
String BudgetType = JOptionPane.showInputDialog(message:"Enter BudgetType to edit:");
if (BudgetType != null && !BudgetType.isEmpty() && budgetManager.getBudgets().containsKey(BudgetType)) {
String newBudgetStr = JOptionPane.showInputDialog("Enter new budget for " + BudgetType + ":");
try {
double newBudgetAmount = Double.parseDouble(newBudgetStr);
budgetManager.editBudget(BudgetType, newBudgetAmount);
JOptionPane.showMessageDialog(parentComponent:null, "Budget updated for " + BudgetType);
} catch (NumberFormatException e) {
JOptionPane.showMessageDialog(parentComponent:null, message:"Invalid budget amount. Enter a number.");
}
} else {
JOptionPane.showMessageDialog(parentComponent:null, message:"BudgetType does not exist or is empty.");
}
}
private void removeBudgetType() {
String BudgetType = JOptionPane.showInputDialog(message:"Enter BudgetType to remove:");
if (BudgetType != null && !BudgetType.isEmpty() && budgetManager.getBudgets().containsKey(BudgetType)) {
budgetManager.removeBudgetType(BudgetType);
JOptionPane.showMessageDialog(parentComponent:null, "BudgetType removed: " + BudgetType);
} else {
JOptionPane.showMessageDialog(parentComponent:null, message:"BudgetType does not exist or is empty.");
}
}
private void viewSummary() {
StringBuilder summary = new StringBuilder(str:"Budget Summary:\n");
612c991c* (Rebasing)
Java Ready
Ln 1, Col 1
Spaces: 4
UTF-8
CRLF
Java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BudgetManager.java U
Expense.java U
Budget.java U
BudgetPlanner.java
public class BudgetPlanner {
private void viewSummary() {
StringBuilder summary = new StringBuilder(str:"Budget Summary:\n");
for (String BudgetType : budgetManager.getBudgets().keySet()) {
Budget budget = budgetManager.getBudgets().get(BudgetType);
Expense expense = budgetManager.getExpenses().get(BudgetType);
double budgetAmount = budget.getAmount();
double spentAmount = expense.getAmount();
summary.append(String.format(format:"BudgetType: %s, Budget: %.2f, Spent: %.2f, Remaining: %.2f\n",
BudgetType, budgetAmount, spentAmount, budgetAmount - spentAmount));
}
JOptionPane.showMessageDialog(parentComponent:null, summary.toString());
}
private void viewExpenseBreakdown() {
StringBuilder breakdown = new StringBuilder(str:"Expense Breakdown:\n");
for (String BudgetType : budgetManager.getExpenses().keySet()) {
Expense expense = budgetManager.getExpenses().get(BudgetType);
breakdown.append(String.format(format:"BudgetType: %s, Spent: %.2f\n", BudgetType, expense.getAmount()));
}
JOptionPane.showMessageDialog(parentComponent:null, breakdown.toString());
}
private void setSavingsGoal() {
String goalStr = JOptionPane.showInputDialog(message:"Enter savings goal:");
try {
double goalAmount = Double.parseDouble(goalStr);
budgetManager.setSavingsGoal(goalAmount);
JOptionPane.showMessageDialog(parentComponent:null, "Savings goal set: " + goalAmount);
} catch (NumberFormatException e) {
JOptionPane.showMessageDialog(parentComponent:null, message:"Invalid amount. Please enter a number.");
}
}
private void exportSummary() {
try (FileWriter writer = new FileWriter(fileName:"budget_summary.txt")) {
StringBuilder summary = new StringBuilder(str:"Budget Summary:\n");
for (String BudgetType : budgetManager.getBudgets().keySet()) {
Budget budget = budgetManager.getBudgets().get(BudgetType);
Expense expense = budgetManager.getExpenses().get(BudgetType);
double budgetAmount = budget.getAmount();
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StringBuilder summary = new StringBuilder(str:"Budget Summary:\n");
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Budget budget = budgetManager.getBudgets().get(BudgetType);
Expense expense = budgetManager.getExpenses().get(BudgetType);
double budgetAmount = budget.getAmount();
double spentAmount = expense.getAmount();
summary.append(String.format(format:"BudgetType: %s, Budget: %.2f, Spent: %.2f, Remaining: %.2f\n",
BudgetType, budgetAmount, spentAmount, budgetAmount - spentAmount));
}
writer.write(summary.toString());
JOptionPane.showMessageDialog(parentComponent:null, message:"Summary exported to budget_summary.txt");
} catch (IOException e) {
JOptionPane.showMessageDialog(parentComponent:null, "Error exporting summary: " + e.getMessage());
}
}
}
612c991c* (Rebasing)
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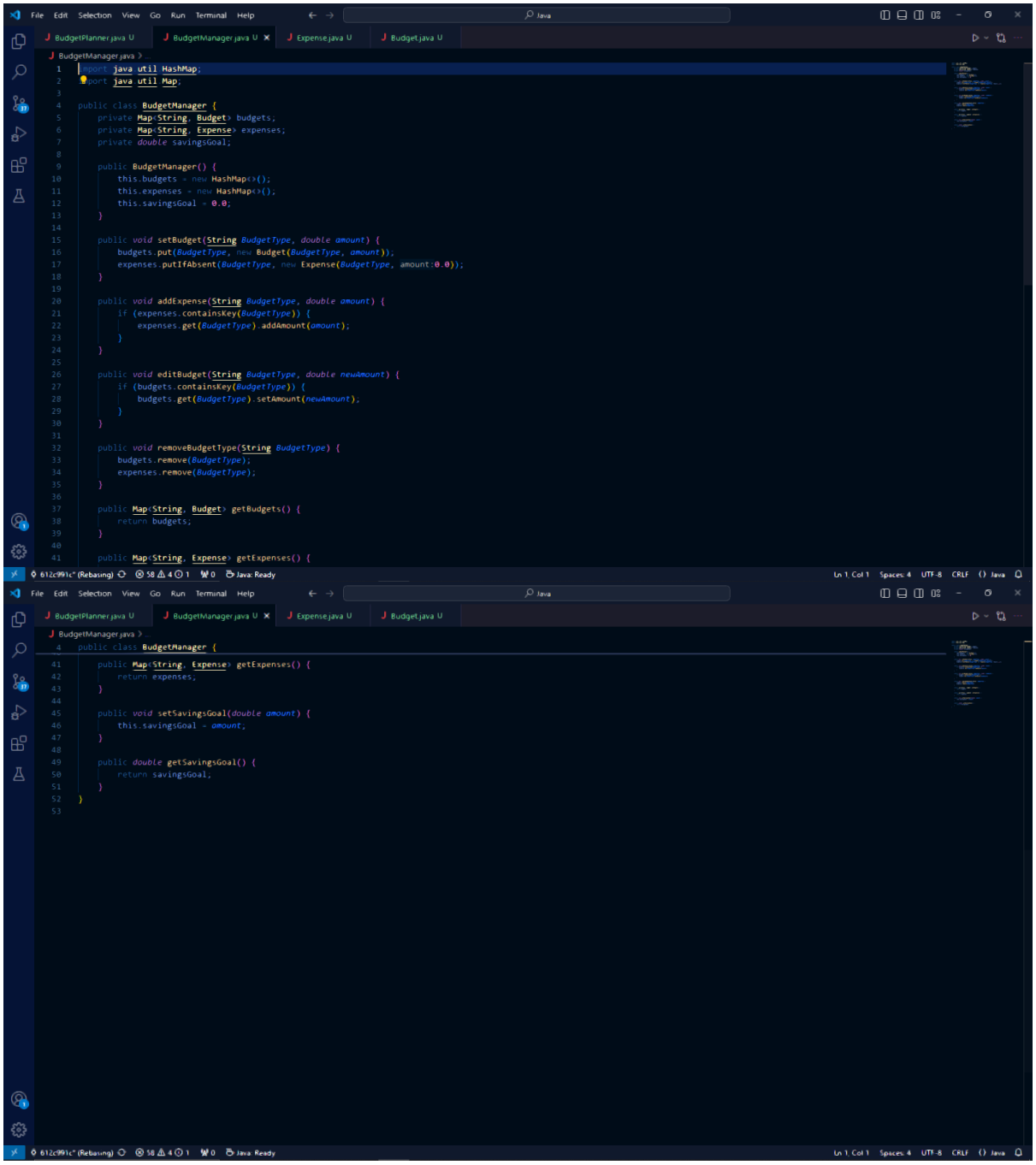
Java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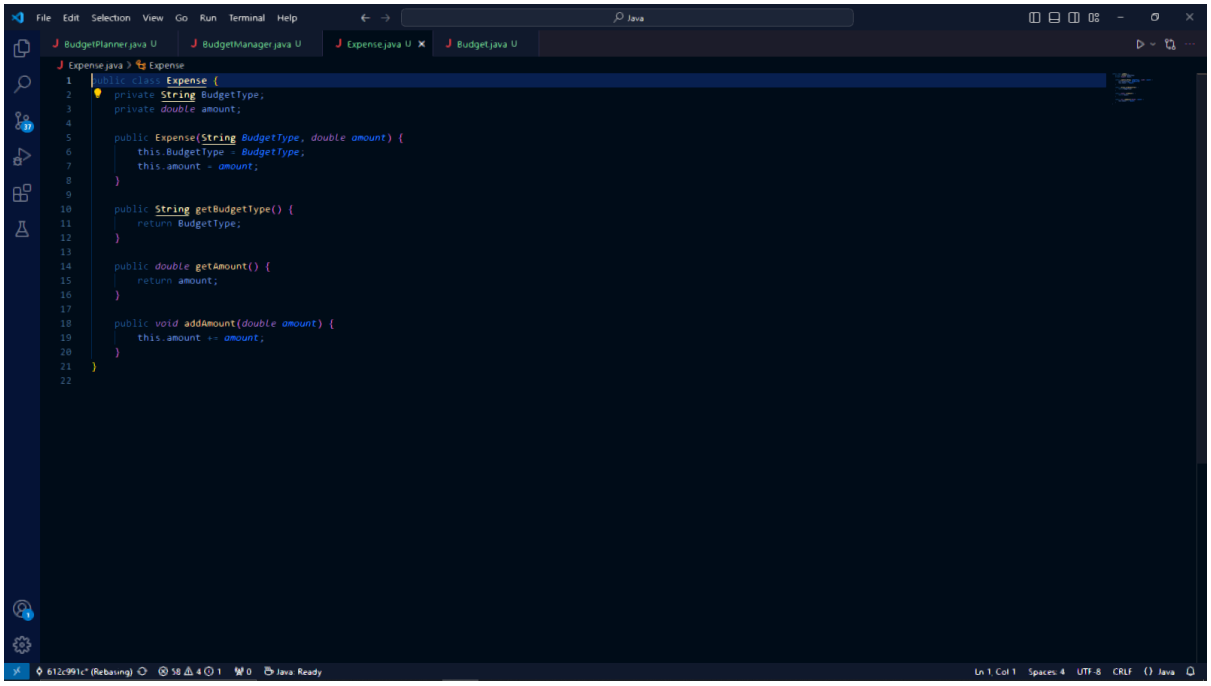
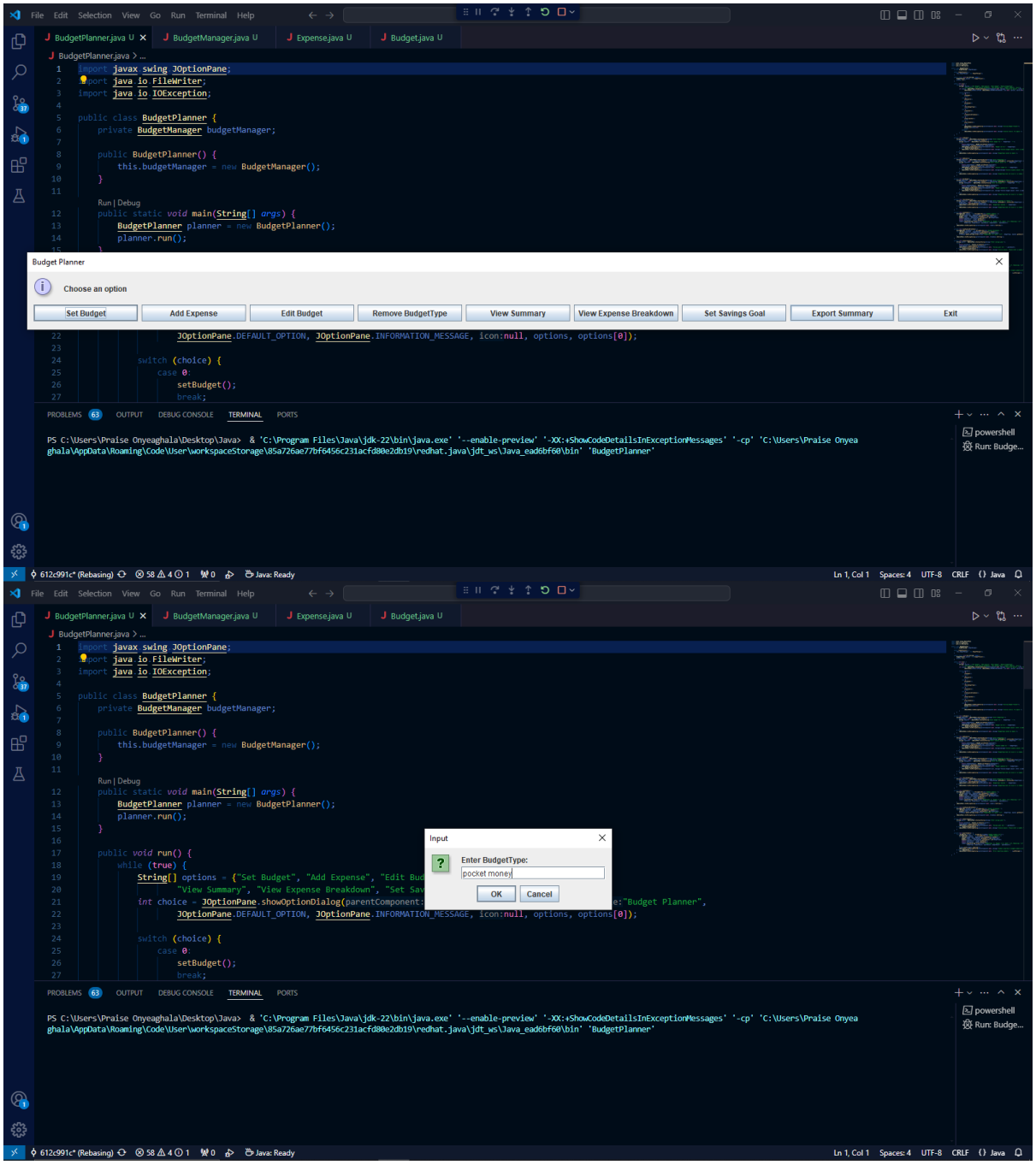
Java
BudgetPlanner.java U
BudgetManager.java U
Expense.java U
Budget.java U
BudgetManager.java
import java.util.HashMap;
import java.util.Map;
public class BudgetManager {
private Map<String, Budget> budgets;
private Map<String, Expense> expenses;
private double savingsGoal;
public BudgetManager() {
this.budgets = new HashMap<>();
this.expenses = new HashMap<>();
this.savingsGoal = 0.0;
}
public void setBudget(String BudgetType, double amount) {
budgets.put(BudgetType, new Budget(BudgetType, amount));
expenses.putIfAbsent(BudgetType, new Expense(BudgetType, amount:0.0));
}
public void addExpense(String BudgetType, double amount) {
if (expenses.containsKey(BudgetType)) {
expenses.get(BudgetType).addAmount(amount);
}
}
public void editBudget(String BudgetType, double newAmount) {
if (budgets.containsKey(BudgetType)) {
budgets.get(BudgetType).setAmount(newAmount);
}
}
public void removeBudgetType(String BudgetType) {
budgets.remove(BudgetType);
expenses.remove(BudgetType);
}
public Map<String, Budget> getBudgets() {
return budgets;
}
public Map<String, Expense> getExpenses() {
612c991c* (Rebasing)
Java: Ready
Ln 1, Col 1
Spaces: 4
UTF-8
CRLF
Java

File Edit Selection View Go Run Terminal Help
Java
BudgetPlanner.java U
BudgetManager.java U
Expense.java U
Budget.java U
BudgetManager.java
public class BudgetManager {
public Map<String, Expense> getExpenses() {
return expenses;
}
public void setSavingsGoal(double amount) {
this.savingsGoal = amount;
}
public double getSavingsGoal() {
return savingsGoal;
}
}
612c991c* (Rebasing)
Java: Ready
Ln 1, Col 1
Spaces: 4
UTF-8
CRLF
Java


File Edit Selection View Go Run Terminal Help
Java
BudgetPlanner.java U
BudgetManager.java U
Expense.java U
Budget.java U
Expense.java > Expense
public class Expense {
private String BudgetType;
private double amount;
public Expense(String BudgetType, double amount) {
this.BudgetType = BudgetType;
this.amount = amount;
}
public String getBudgetType() {
return BudgetType;
}
public double getAmount() {
return amount;
}
public void addAmount(double amount) {
this.amount += amount;
}
}
612c991c* (Rebasing)
Java Ready
Ln 1, Col 1
Spaces: 4
UTF-8
CRLF
Java


File Edit Selection View Go Run Terminal Help
BudgetPlanner.java U
BudgetManager.java U
Expense.java U
Budget.java U
import javax.swing.JOptionPane;
import java.io.FileWriter;
import java.io.IOException;
public class BudgetPlanner {
private BudgetManager budgetManager;
public BudgetPlanner() {
this.budgetManager = new BudgetManager();
}
Run | Debug
public static void main(String[] args) {
BudgetPlanner planner = new BudgetPlanner();
planner.run();
}
Budget Planner
Choose an option
Set Budget
Add Expense
Edit Budget
Remove BudgetType
View Summary
View Expense Breakdown
Set Savings Goal
Export Summary
Exit
JOptionPane.DEFAULT_OPTION, JOptionPane.INFORMATION_MESSAGE, icon:null, options, options[0]);
switch (choice) {
case 0:
setBudget();
break;
PROBLEMS 63
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
PS C:\Users\Praise Onyeaghala\Desktop\Java> & 'C:\Program Files\Java\jdk-22\bin\java.exe' '--enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Praise Onyeaghala\AppData\Roaming\Code\User\workspaceStorage\85a726ae77bf6456c231acfd80e2db19\redhat.java\jdt_ws\Java_ead6bf60\bin' 'BudgetPlanner'
powershell
Run: Budge...
612c991c* (Rebasing)
Java: Ready
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CRLF
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}
Run | Debug
public static void main(String[] args) {
BudgetPlanner planner = new BudgetPlanner();
planner.run();
}
public void run() {
while (true) {
String[] options = {"Set Budget", "Add Expense", "Edit Bud
"View Summary", "View Expense Breakdown", "Set Sav
int choice = JOptionPane.showOptionDialog(parentComponent:
:"Budget Planner",
JOptionPane.DEFAULT_OPTION, JOptionPane.INFORMATION_MESSAGE, icon:null, options, options[0]);
switch (choice) {
case 0:
setBudget();
break;
Input
Enter BudgetType:
pocket money
OK
Cancel
PROBLEMS 63
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
PS C:\Users\Praise Onyeaghala\Desktop\Java> & 'C:\Program Files\Java\jdk-22\bin\java.exe' '--enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Praise Onyeaghala\AppData\Roaming\Code\User\workspaceStorage\85a726ae77bf6456c231acfd80e2db19\redhat.java\jdt_ws\Java_ead6bf60\bin' 'BudgetPlanner'
powershell
Run: Budge...
612c991c* (Rebasing)
Java: Ready
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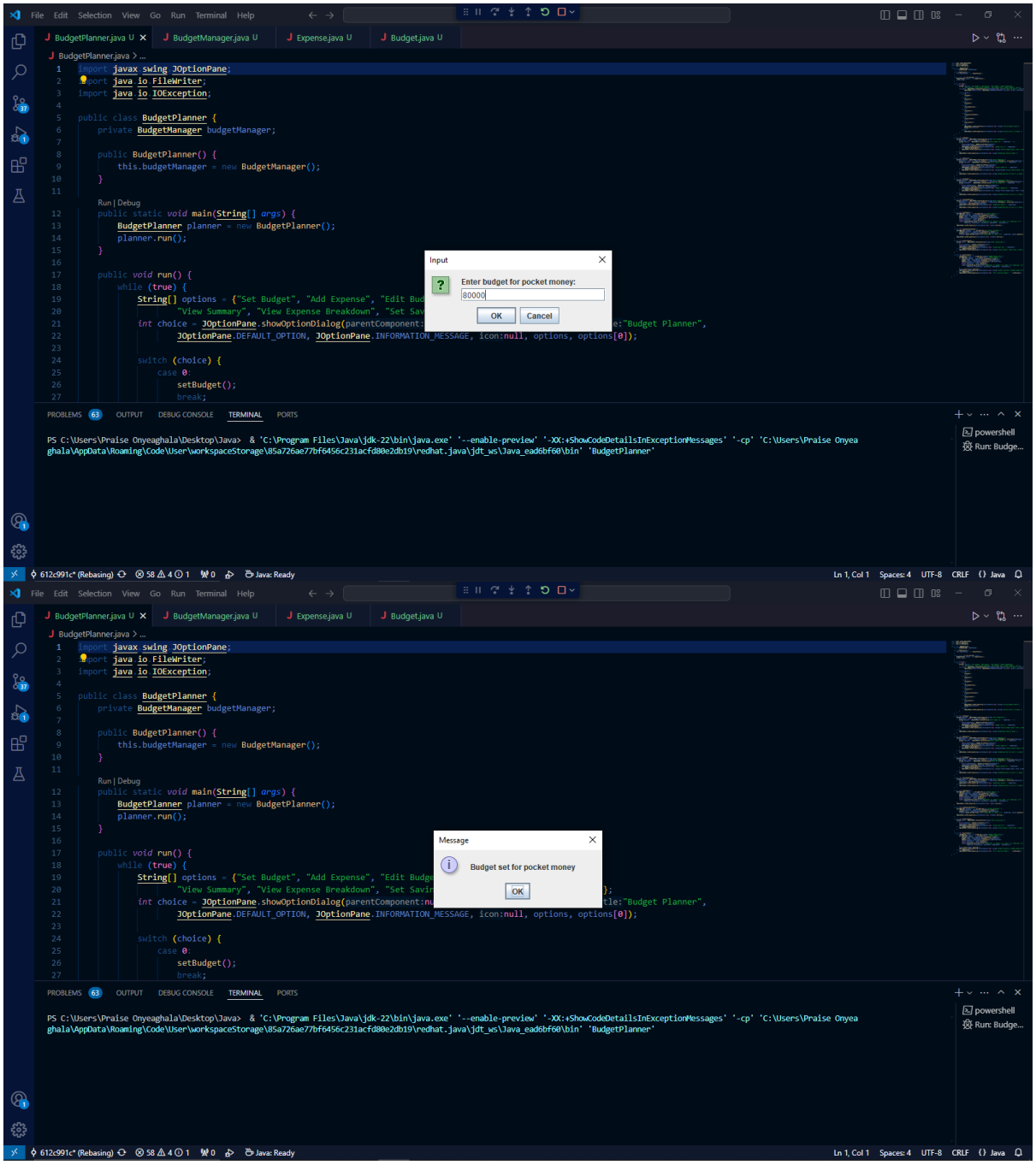
Java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Run | Debug
public static void main(String[] args) {
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"View Summary", "View Expense Breakdown", "Set Sav
int choice = JOptionPane.showOptionDialog(parentComponent:
JOptionPane.DEFAULT_OPTION, JOptionPane.INFORMATION_MESSAGE, icon:null, options, options[0]);
switch (choice) {
case 0:
setBudget();
break;
Input
Enter budget for pocket money:
80000
OK
Cancel
PROBLEMS 63
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
PS C:\Users\Praise Onyeaghala\Desktop\Java> & 'C:\Program Files\Java\jdk-22\bin\java.exe' '--enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Praise Onyeaghala\AppData\Roaming\Code\User\workspaceStorage\85a726ae77bf6456c231acfd80e2db19\redhat.java\jdt_ws\Java_ead6bf60\bin' 'BudgetPlanner'
powershell
Run: Budge...
612c991c* (Rebasing)
Java: Ready
Ln 1, Col 1
Spaces: 4
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BudgetPlanner.java U
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import javax.swing.JOptionPane;
import java.io.FileWriter;
import java.io.IOException;
public class BudgetPlanner {
private BudgetManager budgetManager;
public BudgetPlanner() {
this.budgetManager = new BudgetManager();
}
Run | Debug
public static void main(String[] args) {
BudgetPlanner planner = new BudgetPlanner();
planner.run();
}
public void run() {
while (true) {
String[] options = {"Set Budget", "Add Expense", "Edit Budge
"View Summary", "View Expense Breakdown", "Set Savin
int choice = JOptionPane.showOptionDialog(parentComponent:nu
JOptionPane.DEFAULT_OPTION, JOptionPane.INFORMATION_MESSAGE, icon:null, options, options[0]);
switch (choice) {
case 0:
setBudget();
break;
Message
Budget set for pocket money
OK
PROBLEMS 63
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
PS C:\Users\Praise Onyeaghala\Desktop\Java> & 'C:\Program Files\Java\jdk-22\bin\java.exe' '--enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Praise Onyeaghala\AppData\Roaming\Code\User\workspaceStorage\85a726ae77bf6456c231acfd80e2db19\redhat.java\jdt_ws\Java_ead6bf60\bin' 'BudgetPlanner'
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Run: Budge...
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Java: Ready
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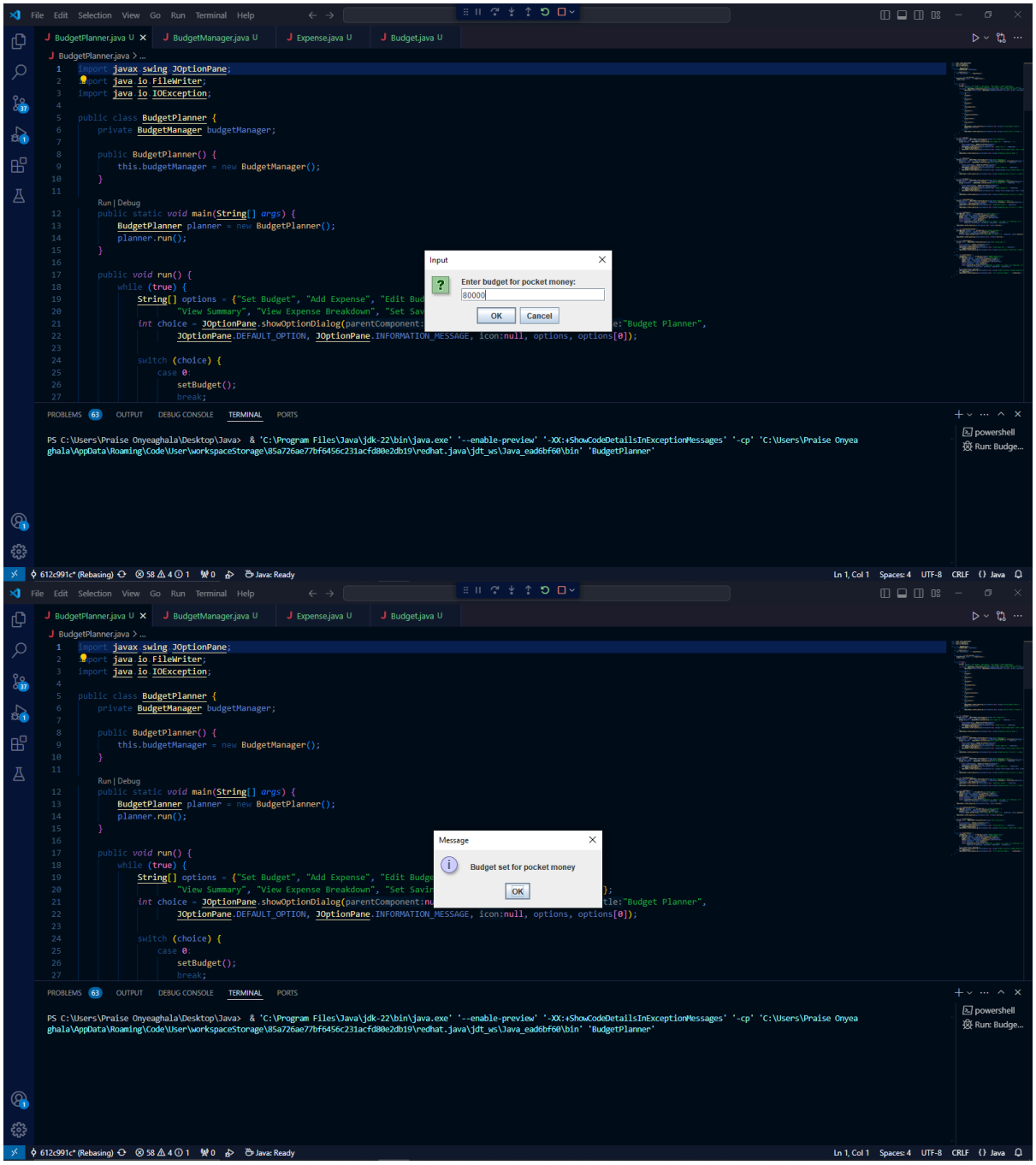
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public class BudgetPlanner {
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public BudgetPlanner() {
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}
Run | Debug
public static void main(String[] args) {
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planner.run();
}
public void run() {
while (true) {
String[] options = {"Set Budget", "Add Expense", "Edit Bud
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int choice = JOptionPane.showOptionDialog(parentComponent:
JOptionPane.DEFAULT_OPTION, JOptionPane.INFORMATION_MESSAGE, icon:null, options, options[0]);
switch (choice) {
case 0:
setBudget();
break;
Input
Enter budget for pocket money:
80000
OK
Cancel
PROBLEMS 63
OUTPUT
DEBUG CONSOLE
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PORTS
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powershell
Run: Budge...
612c991c* (Rebasing)
Java: Ready
Ln 1, Col 1
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switch (choice) {
case 0:
setBudget();
break;
Message
Budget set for pocket money
OK
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DEBUG CONSOLE
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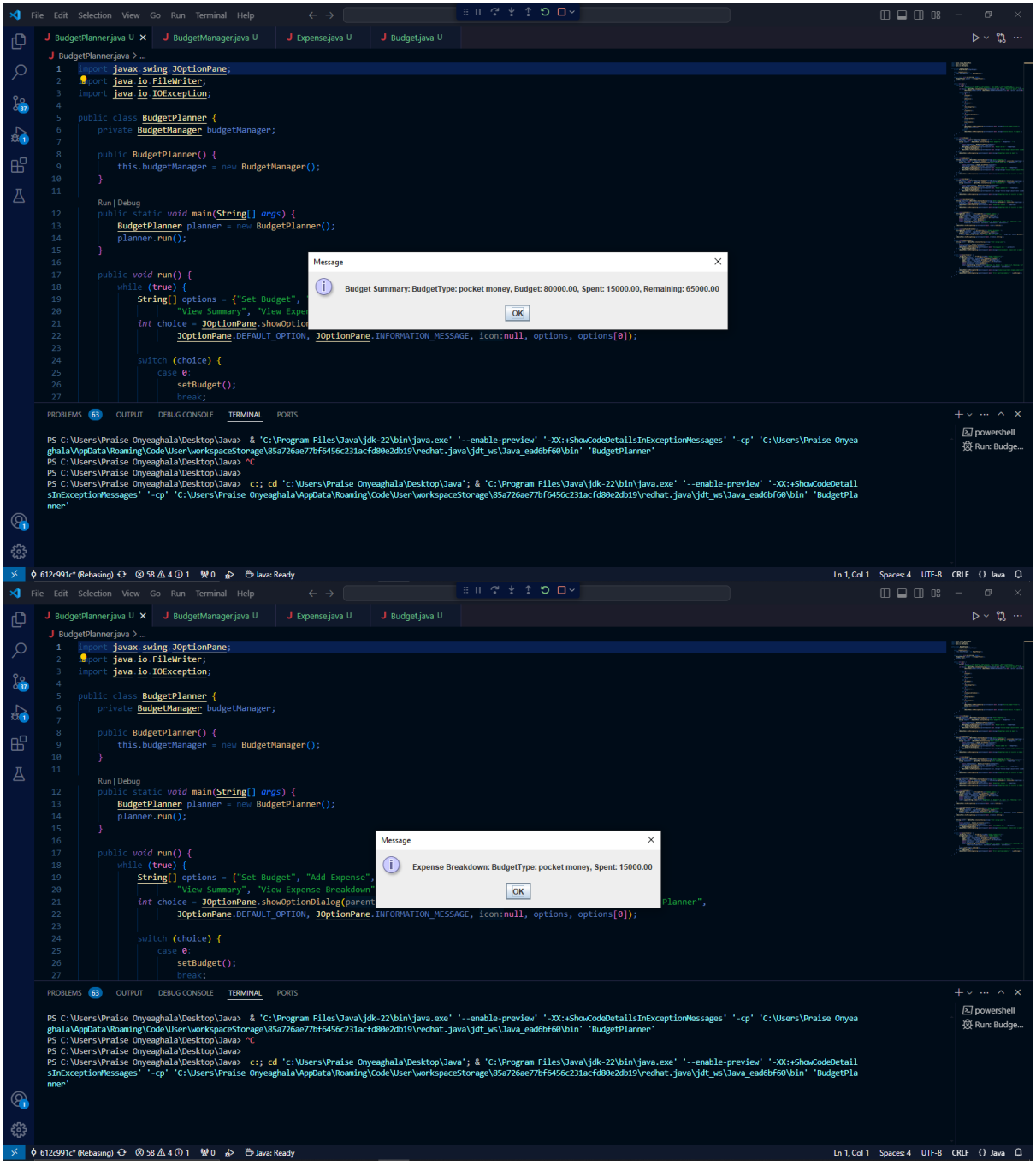
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switch (choice) {
case 0:
setBudget();
break;
Message
Budget Summary: BudgetType: pocket money, Budget: 80000.00, Spent: 15000.00, Remaining: 65000.00
OK
PROBLEMS 63
OUTPUT
DEBUG CONSOLE
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PORTS
PS C:\Users\Praise Onyeaghala\Desktop\Java> & 'C:\Program Files\Java\jdk-22\bin\java.exe' '--enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Praise Onyeaghala\AppData\Roaming\Code\User\workspaceStorage\85a726ae77bf6456c231acfd80e2db19\redhat.java\jdt_ws\Java_ead6bf60\bin' 'BudgetPlanner'
PS C:\Users\Praise Onyeaghala\Desktop\Java> ^C
PS C:\Users\Praise Onyeaghala\Desktop\Java>
PS C:\Users\Praise Onyeaghala\Desktop\Java> c:; cd 'c:\Users\Praise Onyeaghala\Desktop\Java'; & 'C:\Program Files\Java\jdk-22\bin\java.exe' '--enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Praise Onyeaghala\AppData\Roaming\Code\User\workspaceStorage\85a726ae77bf6456c231acfd80e2db19\redhat.java\jdt_ws\Java_ead6bf60\bin' 'BudgetPlanner'
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Run: Budge...
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Java: Ready
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Spaces: 4
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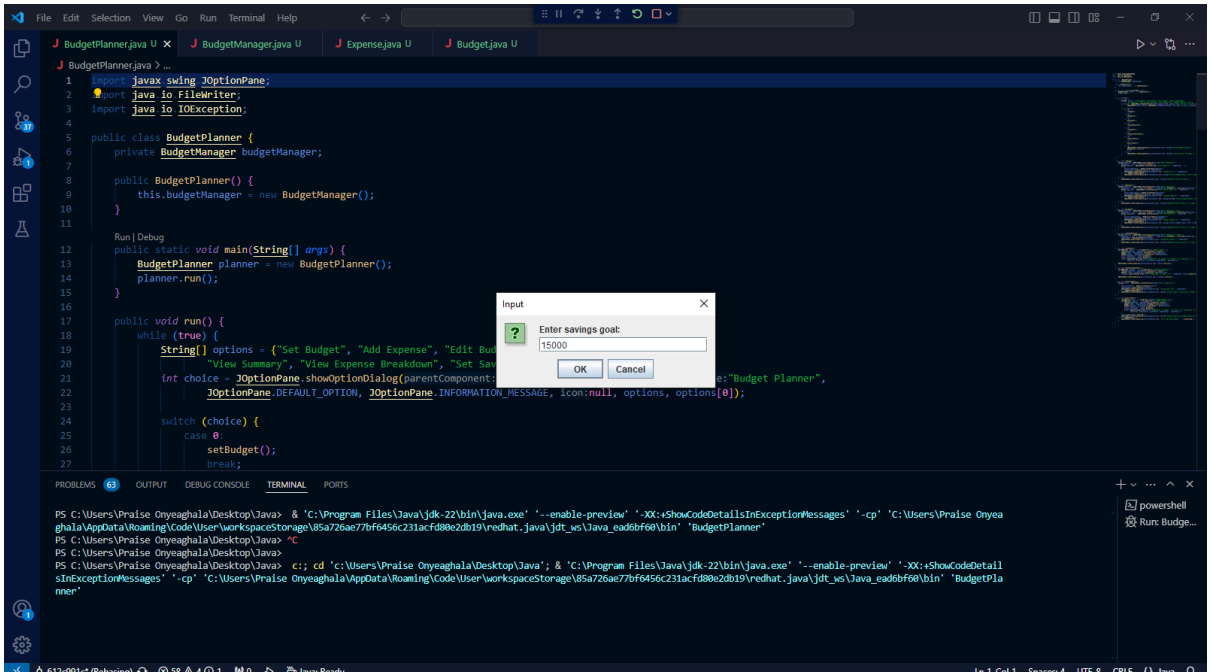
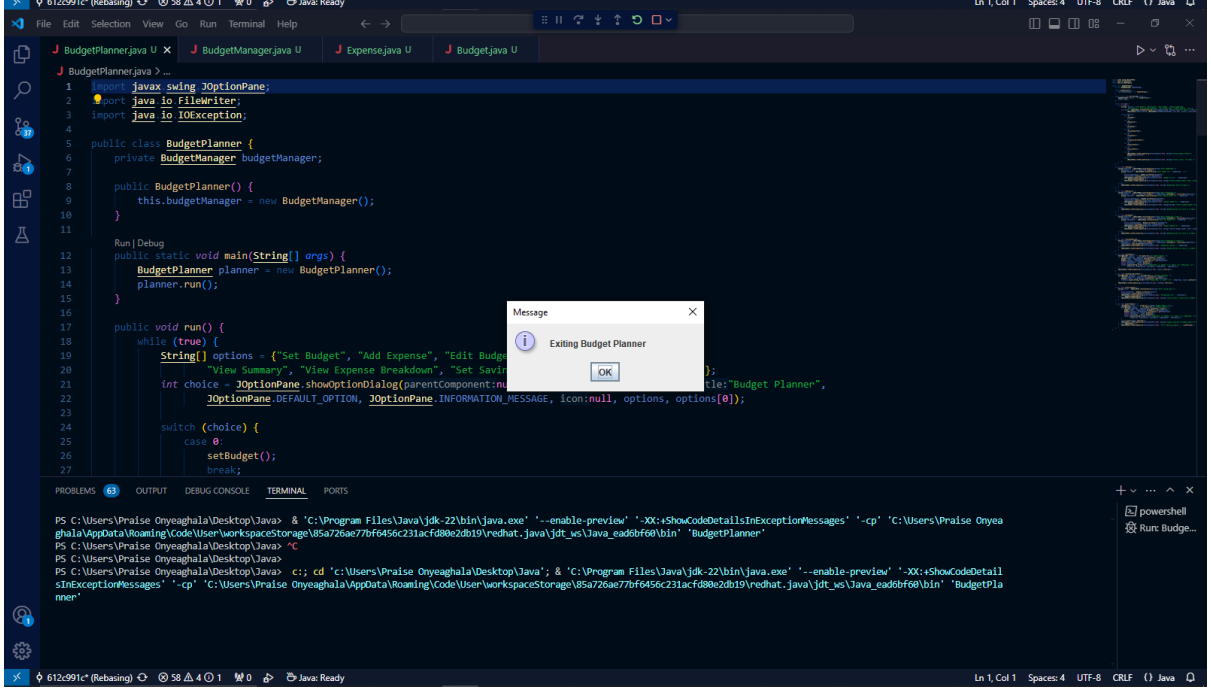
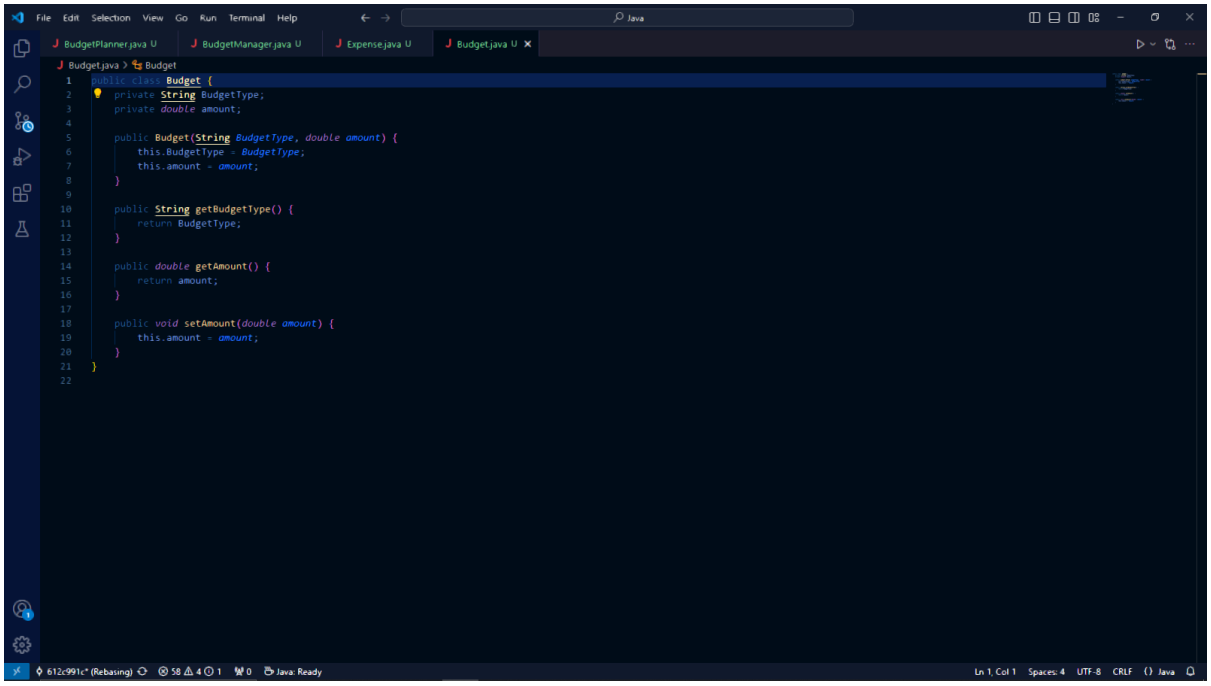
Budget.java U
import javax.swing.JOptionPane;
import java.io.FileWriter;
import java.io.IOException;
public class BudgetPlanner {
private BudgetManager budgetManager;
public BudgetPlanner() {
this.budgetManager = new BudgetManager();
}
Run | Debug
public static void main(String[] args) {
BudgetPlanner planner = new BudgetPlanner();
planner.run();
}
public void run() {
while (true) {
String[] options = {"Set Budget", "Add Expense",
"View Summary", "View Expense Breakdown"
int choice = JOptionPane.showOptionDialog(parent
Planner",
JOptionPane.DEFAULT_OPTION, JOptionPane.INFORMATION_MESSAGE, icon:null, options, options[0]);
switch (choice) {
case 0:
setBudget();
break;
Message
Expense Breakdown: BudgetType: pocket money, Spent: 15000.00
OK
PROBLEMS 63
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
PS C:\Users\Praise Onyeaghala\Desktop\Java> & 'C:\Program Files\Java\jdk-22\bin\java.exe' '--enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Praise Onyeaghala\AppData\Roaming\Code\User\workspaceStorage\85a726ae77bf6456c231acfd80e2db19\redhat.java\jdt_ws\Java_ead6bf60\bin' 'BudgetPlanner'
PS C:\Users\Praise Onyeaghala\Desktop\Java> ^C
PS C:\Users\Praise Onyeaghala\Desktop\Java>
PS C:\Users\Praise Onyeaghala\Desktop\Java> c:; cd 'c:\Users\Praise Onyeaghala\Desktop\Java'; & 'C:\Program Files\Java\jdk-22\bin\java.exe' '--enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Praise Onyeaghala\AppData\Roaming\Code\User\workspaceStorage\85a726ae77bf6456c231acfd80e2db19\redhat.java\jdt_ws\Java_ead6bf60\bin' 'BudgetPlanner'
powershell
Run: Budge...
612c991c* (Rebasing)
Java: Ready
Ln 1, Col 1
Spaces: 4
UTF-8
CRLF
Java


File Edit Selection View Go Run Terminal Help
BudgetPlanner.java U
BudgetManager.java U
Expense.java U
Budget.java U
Input
Enter savings goal:
15000
OK
Cancel
PROBLEMS 63
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
PS C:\Users\Praise Onyeaghala\Desktop\Java> & 'C:\Program Files\Java\jdk-22\bin\java.exe' '--enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Praise Onyeaghala\AppData\Roaming\Code\User\workspaceStorage\85a726ae77bf6456c231acfd80e2db19\redhat.java\jdt_ws\Java_ead6bf60\bin' 'BudgetPlanner'
PS C:\Users\Praise Onyeaghala\Desktop\Java> ^C
PS C:\Users\Praise Onyeaghala\Desktop\Java>
PS C:\Users\Praise Onyeaghala\Desktop\Java> c:; cd 'c:\Users\Praise Onyeaghala\Desktop\Java'; & 'C:\Program Files\Java\jdk-22\bin\java.exe' '--enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Praise Onyeaghala\AppData\Roaming\Code\User\workspaceStorage\85a726ae77bf6456c231acfd80e2db19\redhat.java\jdt_ws\Java_ead6bf60\bin' 'BudgetPlanner'
powershell
Run: Budge...
612c991c* (Rebasing)
Java: Ready
Ln 1, Col 1
Spaces: 4
UTF-8
CRLF
Java


File Edit Selection View Go Run Terminal Help
BudgetPlanner.java U
BudgetManager.java U
Expense.java U
Budget.java U
Message
Exiting Budget Planner
OK
PROBLEMS 63
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
PS C:\Users\Praise Onyeaghala\Desktop\Java> & 'C:\Program Files\Java\jdk-22\bin\java.exe' '--enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Praise Onyeaghala\AppData\Roaming\Code\User\workspaceStorage\85a726ae77bf6456c231acfd80e2db19\redhat.java\jdt_ws\Java_ead6bf60\bin' 'BudgetPlanner'
PS C:\Users\Praise Onyeaghala\Desktop\Java> ^C
PS C:\Users\Praise Onyeaghala\Desktop\Java>
PS C:\Users\Praise Onyeaghala\Desktop\Java> c:; cd 'c:\Users\Praise Onyeaghala\Desktop\Java'; & 'C:\Program Files\Java\jdk-22\bin\java.exe' '--enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Praise Onyeaghala\AppData\Roaming\Code\User\workspaceStorage\85a726ae77bf6456c231acfd80e2db19\redhat.java\jdt_ws\Java_ead6bf60\bin' 'BudgetPlanner'
powershell
Run: Budge...
612c991c* (Rebasing)
Java: Ready
Ln 1, Col 1
Spaces: 4
UTF-8
CRLF
Java


File Edit Selection View Go Run Terminal Help
Java
BudgetPlanner.java U
BudgetManager.java U
Expense.java U
Budget.java U
Budget.java > Budget
public class Budget {
private String BudgetType;
private double amount;
public Budget(String BudgetType, double amount) {
this.BudgetType = BudgetType;
this.amount = amount;
}
public String getBudgetType() {
return BudgetType;
}
public double getAmount() {
return amount;
}
public void setAmount(double amount) {
this.amount = amount;
}
}
612c991c* (Rebasing) 58 4 1 0 Java: Ready
Ln 1, Col 1 Spaces: 4 UTF-8 CRLF Java

Team Member One Contribution(Praise ikenna Onyeaghala BHU/22/04/05/0092)

The BudgetPlanner class in the Budget Planner application manages user interactions, using dialog boxes for input and information display. It serves as the controller in the Model-View-Controller design pattern, handling data flow between the user interface and the business logic. Responsibilities include:

- **managing the user interface,**
- **handling events,**
- **interacting with data,**
- **controlling the application flow**.

- Team Member Two Contribution (Daniel Sase Jr BHU/22/04/05/0061)

  The BudgetManager class in the Budget Planner application is responsible for managing budgets and expenses. It serves as the "Model" in the Model-View-Controller (MVC) pattern, handling data manipulation and business logic. responsibilities include:

  - **data storage,**
  - **data manipulation,**
  - **business logic implementation.**

Team Member Three Contribution (**Samson Praise Chidera BHU/22/04/09/0028**)

The Budget class in the Budget Planner application serves as a data model representing the budget allocated for a specific category. It encapsulates all the details associated with a budget, including the category name and the amount allocated. Its responsibilities are

- **data encapsulation,**
- **data manipulation, and**
- **serving as a representation of a specific financial category's budget.**

It provides methods to access and modify the budgeted amount, ensuring structured storage and access of information. This allows for operations such as setting and updating the budget, making it easy to manage and manipulate multiple categories in the application.

Team Member Four Contribution (Shettima IJASINI DANIEL **BHU/22/04/09/0004**
Kashim samaila **BHU/22/04/05/00/68**)

The Expense class within the Budget Planner application serves as a data model for managing and encapsulating spending details related to a specific category. It stores information about the category name and the total amount spent, providing ease in tracking and managing expenses across different categories. The class is responsible for:

- **data encapsulation**
- **Manipulation**
- **representation of expenses for a specific category.**

Screenshot of Github Contribution Page for the project