## **Tabish Parkar**

## Formative Assessment

2: Systems

Development 1

(HSYD100-1)

1.

```
import java.util.Scanner;
     public class FivePersonNumberGame {
         public static void main(String[] args) {
             Scanner input = new Scanner(System.in);
             int[] numbers = new int[5];
             for (int i = 1; i <= 5; i++) {
                 System.out.print("Enter number for player " + i + " >> ");
                 numbers[i-1] = input.nextInt();
             for (int i = 0; i < numbers.length; i++) {
11
                 String asterisks = "";
12
                 for (int j = 0; j < numbers[i]; j++) {
                     asterisks += "*";
14
                 System.out.println("Player " + (i+1) + ": " + asterisks);
```

```
== eclipse-workspace - FA2 Formative Assessment 2/src/FivePersonNumberGame.java - Eclipse IDE
          Source
                  Refactor Navigate
                                    Search
                                            Project
                                                   Run
                                                         Window
📷 🔻 🔡 📭 i 🗎 i 🐚 i 🦠 🔻 👂 🔻 🤚 🕶 🏪 🔻 i 👑 💣 🗸 🗡 🕶 🚀 🖋 📳 🕮 🖫 🗐 🖷 🛣
🗗 🔐 Problems 🍳 Javadoc 🚨 Declaration 🗏 Console 🗵
 <terminated > FivePersonNumberGame [Java Application] C:\Users\tabis\.p2\pool\plugins\org.eclipse.
Enter number for player 1 >> 12
Enter number for player 2 >> 13
  Enter number for player 3 >> 14
  Enter number for player 4 >> 15
  Enter number for player 5 >> 16
  Player 1: *******
  Player 2: *********
  Player 3: **********
  Player 4: **********
  Player 5: ***********
```

```
public class Purchase {
         int invoiceNumber;
         double saleAmount;
         double salesTax;
         public void setInvoiceNumber(int invoiceNumber) {
             this.invoiceNumber = invoiceNumber;
         public void setSaleAmount(double saleAmount) {
10
             this.saleAmount = saleAmount;
11
             this.salesTax = saleAmount * 0.05;
12
13
         public void displayPurchaseDetails() {
15
             System.out.println("Invoice Number: " + invoiceNumber);
             System.out.println("Sale Amount: $" + saleAmount);
17
             System.out.println("Sales Tax: $" + salesTax);
18
```

```
import java.util.Scanner;
     public class Purchase {
         int invoiceNumber;
         double saleAmount;
         double salesTax;
         public Purchase(int invoiceNumber, double saleAmount) {
11
             this.invoiceNumber = invoiceNumber;
             this.saleAmount = saleAmount;
13
             this.salesTax = saleAmount *;
14
16
         public int getInvoiceNumber() {
17
18
             return invoiceNumber;
19
20
         public double getSaleAmount() {
22
23
             return saleAmount;
24
26
         public double getSalesTax() {
27
28
             return salesTax;
         public static void main(String[] args) {
32
             Scanner scanner = new Scanner(System.in);
             int invoiceNumber = 0;
             double saleAmount = 0.0;
             while (invoiceNumber < 1000 || invoiceNumber > 6000) {
                 System.out.print("Enter invoice number (between 1000 and 6000): ");
38
                 invoiceNumber = scanner.nextInt();
```

```
while (saleAmount < 0) {
    System.out.print("Enter sale amount (non-negative value): ");
    saleAmount = scanner.nextDouble();
}

Purchase purchase = new Purchase(invoiceNumber, saleAmount);
System.out.println("Invoice number: " + purchase.getInvoiceNumber());
System.out.println("Sale amount: $" + purchase.getSaleAmount());
System.out.println("Sales tax: $" + purchase.getSalesTax());
}
</pre>
```