Credit Name: CSE 2nd Language Programming Credit
Assignment Name: #12 Spending Assignment

How has your program changed from planning to coding to now? Please explain?:
        I was planning on asking the user for the spending, calculating the amount into
percentages and displaying it to the user of each category on what the user spends. But what
changed is adding a title and also adding all the percentages of the categories and adding a
total percentage.

```java
Scanner scanner = new Scanner(System.in);

// Making the title of the program.
System.out.println("Spending Analysis for Last Month");
System.out.println("===================================");

// Prompting the user for their spends in different categories (food, clothing, ente
System.out.print("Amount spent on Food (in USD): ");
double foodSpending = scanner.nextDouble();

System.out.print("Amount spent on Clothing (in USD): ");
double clothingSpending = scanner.nextDouble();

System.out.print("Amount spent on Entertainment (in USD): ");
double entertainmentSpending = scanner.nextDouble();

System.out.print("Amount spent on Rent (in USD): ");
double rentSpending = scanner.nextDouble();
```

I displayed the title and I also asked the user about their spending in each category of food,
entertainment, rent, and clothing. Putting the values in the variables so I can add it later.

```java
        // Calculating the total spending of the user.
        double totalSpending = foodSpending + clothingSpending + entertainmentSpending + rentSpend

        // Calculating the total to percentages.
        double foodPercentage = (foodSpending / totalSpending) * 100;
        double clothingPercentage = (clothingSpending / totalSpending) * 100;
        double entertainmentPercentage = (entertainmentSpending / totalSpending) * 100;
        double rentPercentage = (rentSpending / totalSpending) * 100;

        // Displaying the results in a table for the user to see.
        System.out.println("\nSpending Analysis Report");
        System.out.println("========================");
        System.out.println("Category         Amount (USD)      Percentage");
        System.out.println("---------------------------------------------------");
        System.out.printf("Food              %.2f                  %.2f%%\n", foodSpending, foodPercent
        System.out.printf("Clothing          %.2f                  %.2f%%\n", clothingSpending, clothin
        System.out.printf("Entertainment     %.2f                  %.2f%%\n", entertainmentSpending, en
        System.out.printf("Rent              %.2f                  %.2f%%\n", rentSpending, rentPercent
        System.out.println("---------------------------------------------------");
        System.out.printf("Total             %.2f                  100.00%%\n", totalSpending);

        scanner.close();
    }
}
```

After the program receives the information on the spending by the user, I added every category with their values calculating the total then it'll be converted into percentages. I also added a total of the percentage showing there isn't anything left. I made a nice table where the values will be inside and it's easier for the user to look at the information.