

ISC 501 – Programming for Information Systems

Programming Assignment 1 – Due Friday, Oct. 6th 5:00 pm

JagSales pays its employees on a commission basis. Salespeople receive a base pay amount plus 9% of their gross sales for that week, a \$500 bonus if their gross sales exceeds \$10,000, and \$25 additional for each item sold after the first 5 items. Create an application (will need a console application) that will allow the user to:

- Enter the employee's name
- Enter the employee's base pay
 - Must be a valid positive number
- Enter the starting date for the pay week
 - Must be before the ending date
- Enter the ending date for the pay week
 - Must be after the starting date
 - Must be no more than 7 days after the starting date
- Enter the value of each item sold that week (use the console window for this)
 - Enter each item's value one item at a time
 - The item's value must be a positive number
 - The user will indicate they are done entering items sold by entering -1 for the value
- Process the Correct Pay Amounts
 - Base Pay
 - Commission
 - Bonus for Gross Sales
 - Bonus for More than 5 Items
 - Total Pay
- Output the Results (Nicely formatted)
 - Employee's Name
 - Starting Date of Pay Period
 - Base Pay Amount
 - Amount of Sales
 - Commission Pay Amount
 - Bonus Pay Amount for Gross Sales
 - Number of Items Sold
 - Bonus Pay Amount for More than 5 Items
 - Total Pay
- Clear Inputs/Output
- Exit the Program

The program should implement a top-down approach with cohesive methods, appropriate error checking and try-catch block(s). The program must be well-documented and follow required coding standards.

The screenshot shows a Windows application window titled "Jag Sales". On the left, a command prompt window displays a series of prompts: "Enter the Price of the Item Sold, Enter -1 when done", followed by the values 599, 259, 719, 75, 800, 450, and -1. The main application window contains a form with the following fields and values:

- Name: Bob
- Base Pay: 200
- Starting Date: 5/30/2023
- Ending Date: 6/ 7/2023

On the right side of the form, a summary box displays the following calculated values:

Employee Name:	Bob
Start Date:	05/30/2023
Base Pay:	\$200.00
Amount of Sales:	\$2,902.00
Commission:	\$261.18
Bonus Pay on Gross:	\$0.00
Number of Items Sold:	6
Base Pay on Number of Items:	\$25.00
Total Pay:	\$486.18

At the bottom of the application window, there are three buttons: "Process Pay", "Clear", and "Exit".

Here is some sample data to use when testing your program:

- Employee 1 – Steve
 - Base Pay - \$200
 - Items Sold:
 - Item 1 - \$599
 - Item 2 - \$259
 - Item 3 - \$719
 - Item 4 - \$75
 - Item 5 - \$800
 - Item 6 - \$450
 - Total Value of Items Sold = \$2902 (6 items sold)
 - Commission = 261.18
 - Bonus (Gross Sales) = 0
 - Bonus (Items over 5) = 25
 - Total Pay = \$486.18
- Employee 2 – Beth
 - Base Pay - \$500
 - Items Sold:
 - Item 1 - \$1600
 - Item 2 - \$2285

- Item 3 - \$1690
- Item 4 - \$5575
- Item 5 - \$675
- Item 6 - \$999
- Item 7 - \$725
- Total Value of Items Sold - \$13549 (6 items sold)
- Commission = 1219.41
- Bonus (Gross Sales) = 500
- Bonus (Items over 5) = 50
- Total Pay = \$2269.41