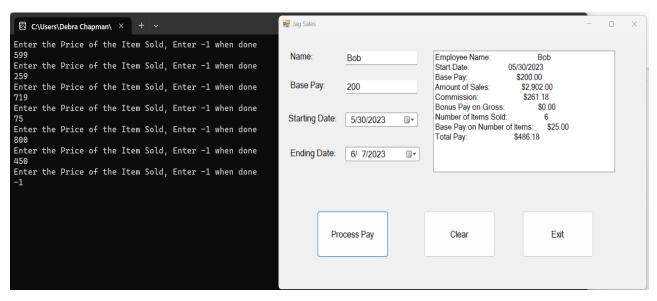## ISC 501 – Programming for Information Systems

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.

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