| **Problem** | **Input** | **Process** | **Output** |
| --- | --- | --- | --- |

|  |  |  |  |
| --- | --- | --- | --- |
| **1. Discount Calculation** | Quantity, price, discount rate | - Use a function to calculate discount amount as price \* discount rate - Calculate discounted price as price - discount amount | Display quantity, price, discount amount, and discounted price |

|  |  |  |  |
| --- | --- | --- | --- |
| **2. Student Exam Scores Calculation** | Last name, 3 exam scores | - Use a function to calculate total points as the sum of the 3 exam scores - Calculate average score as total points / 3 | Display last name, total points, and average score |

|  |  |  |  |
| --- | --- | --- | --- |
| **3. Sales Report Calculation** | Salesperson last name, sales | - Use a function to calculate commission: 10% if sales > $100,000, else 5% - Calculate next year’s target as sales \* 0.05 | Display salesperson last name, commission, and next year’s target |

|  |  |  |  |
| --- | --- | --- | --- |
| **4. Bowler Score Calculation** | Bowler last name, 3 game scores, handicap | - Use a function to calculate average score as the sum of game scores divided by 3 - Calculate average score with handicap as average score + handicap | Display last name, average score, and average score with handicap |

|  |  |  |  |
| --- | --- | --- | --- |
| **5. Total and Tax Calculation** | Quantity of item, unit price | - Use a function to calculate total as quantity \* unit price - Calculate tax as 7% of total using global variables for total and tax | Display total and tax |