**Excel Conditional Formatting:**

| Student Name | Math Score | Science Score | English Score |

|--------------|------------|---------------|---------------|

| John | 85 | 90 | 80 |

| Sarah | 70 | 75 | 85 |

| Emma | 95 | 88 | 92 |

| Michael | 60 | 70 | 65 |

| Emily | 80 | 85 | 75 |

**Questions:**

How can you apply conditional formatting to highlight students who scored below 75 in Math?

Can you create a conditional formatting rule to identify the top 10% of students based on their total scores across all subjects?

**Excel Charts:**

| Month | Sales |

|----------|-------|

| January | 1000 |

| February | 1200 |

| March | 800 |

| April | 1500 |

| May | 1100 |

**Questions:**

Create a line chart to visualize the trend of sales over the months.

How would you create a bar chart to compare sales across different months?

**Excel Formulas (VLOOKUP and XLOOKUP):**

**Sheet 1: Employee Data**

| Employee ID | Name | Department |

|-------------|----------|------------|

| 101 | John | HR |

| 102 | Sarah | IT |

| 103 | Emma | Finance |

| 104 | Michael | Marketing |

| 105 | Emily | Operations |

**Sheet 2: Salary Data**

| Employee ID | Salary |

|-------------|----------|

| 101 | 50000 |

| 102 | 60000 |

| 103 | 55000 |

| 104 | 52000 |

| 105 | 48000 |

**Questions:**

How would you use VLOOKUP to find the salary of the employee with ID 103?

Can you use XLOOKUP to retrieve the department of the employee named "Sarah"?

**Conditional Formatting:**

**Question:** Using conditional formatting in Excel, highlight cells in a column where the value exceeds 100. Provide a sample dataset and describe the steps to achieve this.

**Sample Dataset:**

| Product | Sales |

|-----------|-------|

| A | 80 |

| B | 120 |

| C | 90 |

| D | 110 |

**Question:** How would you use conditional formatting to shade alternate rows in a table? Explain the process with a sample dataset.

**Sample Dataset:**

| Name | Age |

|-----------|-----|

| John | 25 |

| Emily | 30 |

| Michael | 28 |

| Sophia | 35 |

**Charts:**

**Question:** Create a line chart in Excel to visualize the trend of sales over a year, using the provided sample dataset.

**Sample Dataset:**

| Month | Sales |

|---------|-------|

| Jan | 100 |

| Feb | 120 |

| Mar | 150 |

| Apr | 130 |

| May | 160 |

**Question:** How would you create a pie chart to represent the distribution of product sales in a dataset?

**Sample Dataset:**

| Product | Sales |

|-----------|-------|

| A | 300 |

| B | 450 |

| C | 200 |

**Formulas (VLOOKUP and XLOOKUP):**

**Question:** Use VLOOKUP function to find the price of a specific product from a table.

**Sample Dataset:**

| Product | Price |

|-----------|-------|

| A | 10 |

| B | 15 |

| C | 20 |

**Question:** Implement XLOOKUP to find the corresponding name of a product based on its ID from a dataset.

**Sample Dataset:**

| Product ID | Name |

|------------|---------|

| 101 | Apple |

| 102 | Banana |

| 103 | Orange |