Python Data Activities Unit 2.1

Complete these activities based on your learning in this unit.

1. **Cater to Diversity**
    Imagine you are creating a data visualization for an international audience that includes participants from various cultural backgrounds. Discuss how you would navigate cultural nuances in colour selection to ensure universal understanding. Provide examples of colours that might have different meanings in different cultures and propose a strategy to address this diversity.

2. **Categorize Your World**
    Objective: Understand how to identify and categorize different types of data.
    Task: List five things around you and categorize them as either categorical or numerical data.

3. **Choosing the Right Chart**
    Objective**:** Apply the knowledge of choosing the right chart for effective visualization.
    Task**:**
    i.   Given Data**:**
    - Data Set: Annual Sales Performance
    - Categories: Year (2018, 2019, 2020, 2021)
    - Data Points: Sales Revenue (in millions)

Year	Sales Revenue (Millions)
2018	5
2019	8
2020	12
2021	9

    ii. Choose the Most Suitable Chart:
    - Select the most suitable chart type (bar chart, line chart, scatter plot, etc.) to represent the given data.
    iii. Reflection**:**
    - Justification**:**
        a. Explain why you chose the specific chart type.
        b. How does the selected chart type enhance the clarity of the data?
        c. Consider factors such as trends, comparisons, and overall message clarity.