Data Visualization with Python (Part B Programs)

Design and Develop the Dashboard using appropriate Data visualization Python library for any one of the following:

1. Dashboard for Analysis of COVID-19 vaccination coverage globally: Use appropriate Data Sets and develop the program which can answer the following questions:

- **Q1**: What countries have the highest and lowest vaccination coverage?
- **Q2**: How has vaccination coverage changed over time?

2. Healthcare analytics dashboard to visualize patient admission trends: Use appropriate Data Sets and develop the program which can answer the following questions:

- **Q1**: How do monthly admission rates vary? Utilize Bokeh to create an interactive time series plot.
- **Q2**: Using Seaborn, represent the distribution of patient ages in different medical specialties.

3: Educational analytics dashboard to visualize student performance trends: Use appropriate Data Sets and develop the program which can answer the following questions:

- **Q1**: How do students' GPAs change over semesters?
- **Q2**: Create a graph/map to analyse course difficulty and average grades.

4: Dashboard for Analysis of product sales performance in a retail business: Use appropriate Data Sets and develop the program which can answer the following questions:

- **Q1**: What are the top-selling products in different regions?
- **Q2**: How do sales vary by season? Use seasonal line charts.