1. Name three types of visuals you can create in Power BI:

- **Bar Chart**

- **Line Chart**

- **Pie Chart**

(Other examples include tables, matrix, cards, KPI indicators, maps, etc.)

🧩 **2. How do you add a slicer to a report?**

1. Go to the **Visualizations** pane.

2. Click the **Slicer** icon.

3. Drag a field (e.g., Quarter) into the **Field** well.

4. The slicer will now filter visuals on the report page based on the selected value.

📊 **3. What is the difference between a bar chart and a column chart?**

- **Bar Chart**: Horizontal bars. Good for comparing long category names.

- **Column Chart**: Vertical columns. Ideal for time series or numerical comparisons.

🎨 **4. How do you change the color of a visual background?**

1. Select the visual.

2. In the **Visualizations** pane, click the **Format** (paint roller) icon.

3. Open the **Background** section.

4. Turn it **On**, choose a color, and adjust the transparency if needed.

🔽 **5. What does "drill-down" mean in a visual?**

"Drill-down" allows users to explore data at multiple levels.
For example:

- Level 1: Sales by **Region**

- Level 2: Click a region → see **Products**

- Level 3: Click a product → see **Quarter**

🧱 **6. Create a bar chart showing SalesAmount by Region:**

1. Insert a **Bar Chart**.

2. Drag Region to **Axis** and SalesAmount to **Values**.

3. The chart will display total sales per region.

🔦 **7. Add a slicer for Quarter to filter all visuals on the page:**

1. Insert a **Slicer**.

2. Drag the Quarter field into the slicer.

3. All visuals using Quarter will be filtered when a slicer value is selected.

👉 **8. Format the bar chart to show data labels:**

1. Select the bar chart.

2. Go to the **Format** pane.

3. Enable the **Data labels** toggle.

4. The sales values will appear on the bars.

📈 **9. Use a line chart to show SalesAmount trends over Quarter:**

1. Insert a **Line Chart**.

2. Drag Quarter to **Axis** and SalesAmount to **Values**.

3. The line chart will show how sales change over time.

🛠️ **10. Add a tooltip to display Product details when hovering over bars:**

1. Select the visual (e.g., bar chart).

2. Drag Product into the **Tooltips** field.

3. When you hover over a bar, the tooltip will show the product info.

🔄 **11. Sync slicers across multiple report pages:**

1. Select a slicer.

2. Go to **View > Sync Slicers** pane.

3. Enable sync for the desired report pages.

⚙️ **12. Create a custom visual with dynamic measure selection (Sales vs. Profit):**

1. Create a disconnected table:

DAX

CopyEdit

Measure Selector = DATATABLE("Measure", STRING, {{"Sales"}, {"Profit"}})

2. Create a DAX measure:

DAX

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Selected Measure =

SWITCH(

 SELECTEDVALUE('Measure Selector'[Measure]),

 "Sales", SUM('Sales_Interactive'[SalesAmount]),

 "Profit", [YourProfitMeasure]

)

3. Use a slicer on the Measure Selector table and use Selected Measure in the visual.

❇️ **13. Implement a hierarchy for Region > Product > Quarter drill-down:**

1. In the **Data** pane, create a hierarchy:
    o   Right-click Region, then click **New hierarchy**
    o   Add Product and Quarter to the hierarchy
2. Use this hierarchy in a visual.
3. Enable **drill-down** mode to explore data step by step.

📝 **14. Use bookmarks to toggle between two visuals in the same space:**

1. Place two visuals (e.g., Bar Chart and Pie Chart) on top of each other.
2. Use the **Selection** pane to hide/show one visual.
3. Create bookmarks for each state (one for bar, one for pie).

4. Add buttons with **Bookmark** actions to switch between them.

🐢 **15. Optimize a slow-rendering report with 10+ visuals:**

- Reduce the number of visuals shown on one page.

- Use **aggregated data** (summarized tables).

- Disable **auto date/time hierarchy**.

- Turn on **"Load visuals when visible"** option.

- Apply report/page filters.

- Use **Performance Analyzer** (View tab) to identify bottlenecks.