PYTHON FINDINGS

Findings

1. Created a bar chart using matplotlib to identify the patient counts in various departments and it was identified that Cardiologist had most patient visits followed by General Physician.

2. Bar chart showing average treatment duration for each condition/disease was plotted, and identified that it was almost same for all departments i.e around 15 days.

3. The Readmission rates of both adult and senior patients are found to be same.

   Age Group
   Senior - 0.180453
   Adult - 0.180189

4. Calculated the correlation between cost, duration, and satisfaction.
   All correlations are **near zero**, meaning:
   - The three variables **do not influence each other**.
   - Cost, duration, and satisfaction behave **independently** in your dataset.
   - There is **no linear correlation** worth exploring further.

5. It was analyzed and identified that 504 patients experienced poor outcomes despite paying higher than average cost for the treatments.

6. Using trend analysis, it was observed that January recorded the maximum number of patient admissions followed by October, August and March.

7. It was found that Dr_249 (Doctor_ID- D1249) Cardiologist has the highest outcome-to-cost-ratio (0.000629) among all others.