|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Name** | **Birth\_Month** | **Gender** | **Pass\_Division** |
| **0** | Mudit Chauhan | December | M | III |
| **1** | Seema Chopra | January | F | II |
| **2** | Rani Gupta | March | F | I |
| **3** | Aditya Narayan | October | M | I |
| **4** | Sanjeev Sahni | February | M | II |
| **5** | Prakash Kumar | December | M | III |
| **6** | Ritu Agarwal | September | F | I |
| **7** | Akshay Goel | August | M | I |
| **8** | Meeta Kulkarni | July | F | II |
| **9** | Preeti Ahuja | November | F | II |
| **10** | Sunil Das Gupta | April | M | III |
| **11** | Sonali Sapre | January | F | I |
| **12** | Rashmi Talwar | June | F | III |

Q1 . Perform the following operations on the given dataset:

1. Data transformation, aggregation, slicing, and indexing.
2. Prepare data for visualization.
3. Plot bar chart to show the frequency of each class label in the data.
4. Draw a Pie chart for Pass\_division.
5. Plot density distribution for Birth\_Month.