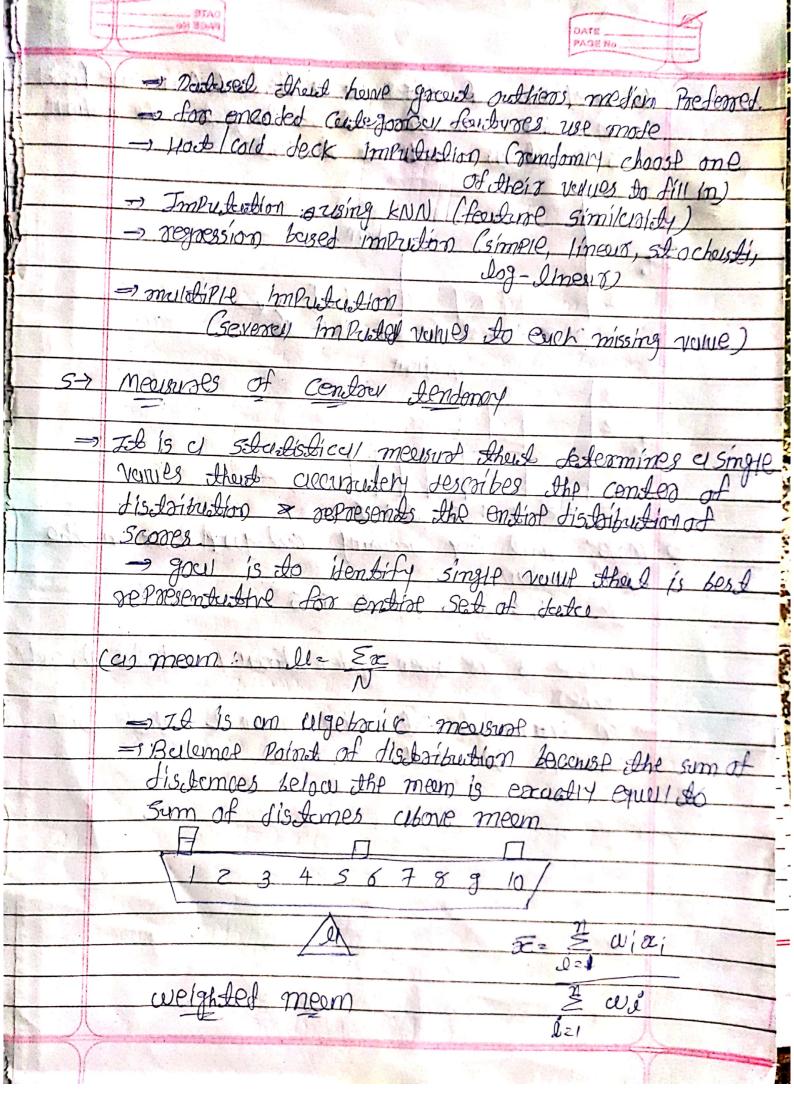
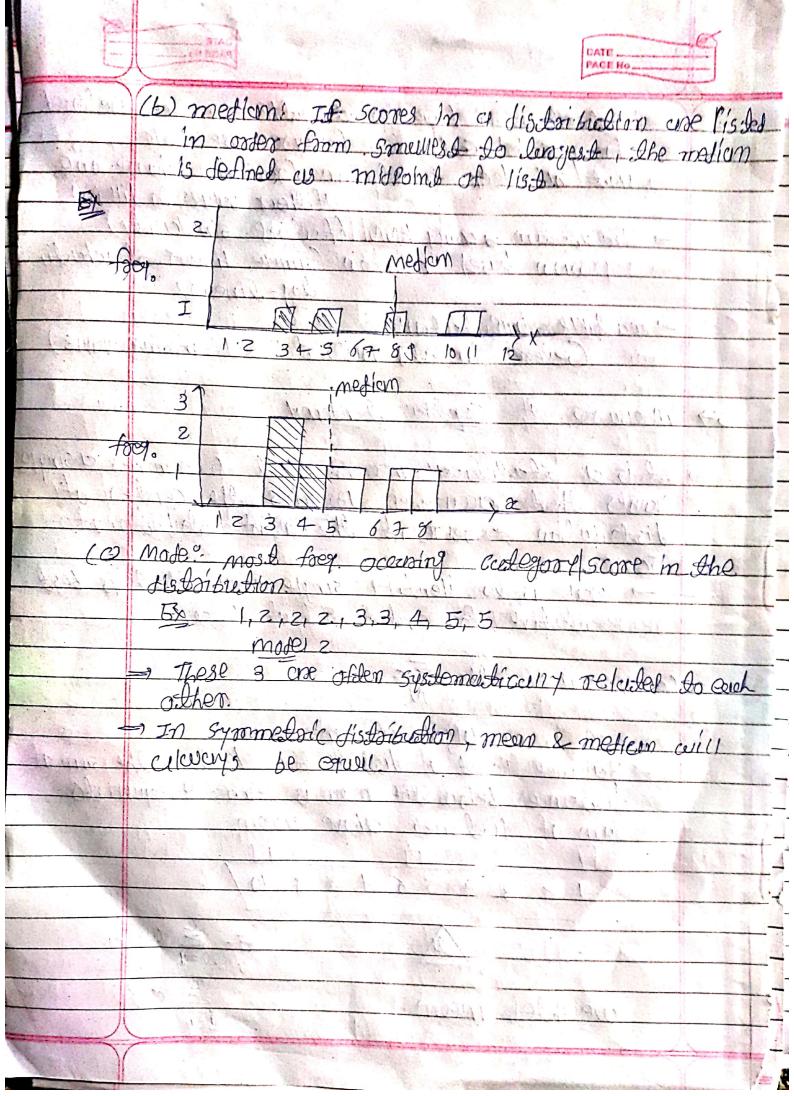
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In [1]:
          import numpy as np
          import pandas as pd
          import seaborn as sns
          import matplotlib.pyplot as plt
          import os
          import warnings
In [2]:
          warnings.filterwarnings("ignore")
In [3]:
          df = pd.read_csv('C:\\Users\\91810\\Downloads\\Histograms.csv')
          df.head()
                   Α
                              В
                                        С
                                                     Left Skew
                                                               Multimodal
                                                                                IQ20
                                                                                          IQ100
Out[3]:
         0 48.916926 67.223785 55.917225 45.561471
                                                          23.1
                                                                37.632318 120.459951
                                                                                       93.041368
         1 47.692726 68.175751 30.174288 47.825783
                                                          18.2
                                                                49.244001 107.418864
                                                                                       93.806158
         2 48.629579 61.753451 43.641583 59.699370
                                                          14.6
                                                                37.780203
                                                                           95.006312 135.339681
         3 58.544034
                      69.783507 53.738745 45.704638
                                                          21.2
                                                                56.827208
                                                                           96.522192 100.772632
         4 44.821338 70.730153 67.829659 44.254419
                                                          24.5
                                                                54.513731 108.878563
                                                                                       91.600053
In [4]:
          df.describe()
                        Α
                                   В
                                               C
                                                             Left Skew
                                                                       Multimodal
                                                                                        IQ20
                                                                                                   IQ100
Out[4]:
         count 100.000000
                           100.000000
                                      100.000000
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                                                                                    20.000000 100.000000
                 50.632133
                            65.544513
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                                                             20.107609
                                                                        59.734576 102.132401 102.925179
          mean
                                                   50.211539
                  5.063123
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                                       15.342335
                                                    5.228720
                                                              7.047410
                                                                        11.513170
                                                                                    15.550922
                                                                                               15.223586
           std
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                 39.935450
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                                       15.381702
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                                                              1.000000
                                                                        33.555815
                                                                                    78.284920
                                                                                               69.763146
           25%
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                            61.819282
                                       42.188371
                                                   46.852570 15.025000
                                                                        49.592572
                                                                                    91.681628
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           50%
                 50.673711
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                                                             21.500000
                                                                        60.602041 105.608402 101.426575
                                        51.654882
                                                   49.726685
           75%
                 53.820237
                            68.821663
                                        61.308291
                                                   53.196049
                                                             25.925000
                                                                        69.521137 108.952938
                                                                                              114.041076
                 63.531483
                            80.184730
                                        90.095257
                                                   71.200000 31.400000
                                                                        81.929535 133.448312 138.871933
           max
In [5]:
          1.1.1
          Data Cleaning
          Filling in missing values
          Single value imputation -mean
          mean_val = df['A'].mean()
          df_mean = df
          df_mean['A'].fillna(value=mean_val, inplace=True)
          df_mean.isna().sum()
                            0
Out[5]: A
                         100
         В
         С
                         100
         D
                         100
         Left Skew
                         108
         Multimodal
                            0
```

180

**IQ20**