

Create a pandas dataframe with 4 columns and 25 rows as shown below.

df - DataFrame

Index	A	B	C	D
1001	95	5	25	0
1002	71	5	24	2
1003	97	5	23	4
1004	31	5	22	6
1005	93	5	21	8
1006	12	5	20	10
1007	44	5	19	12
1008	75	5	18	14
1009	17	5	17	16
1010	63	5	16	18
1011	74	5	15	20
1012	47	5	14	22
1013	41	5	13	24
1014	90	5	12	26
1015	32	5	11	28
1016	59	5	10	30
1017	63	5	9	32
1018	70	5	8	34
1019	77	5	7	36
1020	73	5	6	38
1021	93	5	5	40
1022	42	5	4	42
1023	57	5	3	44
1024	68	5	2	46
1025	65	5	1	48

Generate random integer for 1st column between values 10 and 100. Note that the number could be different in your machine as it is random. You can understand the pattern in other columns and row index. Make sure you put the column names A, B, C and D

1. Slice column 'A' from df and save it as a series 's'
2. Slice column 'A' and column 'C' and save it as df2
3. Slice 0th and 2nd column using column number and save it as df3
4. Slice from 0 till 5th position in series 's'
5. Slice all columns from rows 3 till 19 and save it as df4
6. Create df5 which has subset of data from df where column A values are above median of column A. Note: slice entire columns based on condition on column A