

## Question 1

1. What are the steps for handling missing data?
2. How to deal with missing values in the following dataset apply all above steps. Write the code to clean the entire dataset using the appropriate methods. Also explain why these methods are used for a particular missing value or feature.

S. No	Name	State	Gender	Age
0	Altaf	–	M	63
1	Imran	London	M	33
2	Hamza	Lahore	M	–
3	Bahtawar	Peshawar	F	19
4	Ranveer	Dehli	M	34
5	Kaif	Mumbai	–	32
6	Deepika	Lahore	F	31
7	Mahira	Karachi	–	38
8	Waseem	–	M	–

3. How to convert numerical values into categorical values. Convert the age column into categorical column [values = "Young (age<=30)", "Middle Age (age>30ANDage<=55)" and "Older Age (age>55)"]

S. No	Name	Party	Gender	Age
0	Altaf	–	M	63
1	Imran	PTI	M	33
2	Hamza	PPP	M	–
3	Bahtawar	PPP	F	19
4	Ranveer	PTI	M	34
5	Kaif	PTI	–	32
6	Deepika	PTI	F	31
7	Mahira	PMLN	–	38
8	Waseem	–	M	–