1. Write a Pandas program to split the following dataframe into groups based on school code. Also check the type of GroupBy object.

Test Data

'school_code': ['s001','s002','s003','s001','s002','s004'],

'class': ['V', 'V', 'VI', 'VI', 'V', 'VI'],

'name': ['Alberto Franco','Gino Mcneill','Ryan Parkes', 'Eesha Hinton', 'Gino Mcneill', 'David Parkes'],

'date_Of_Birth ': ['15/05/2002','17/05/2002','16/02/1999','25/09/1998','11/05/2002','15/09/1997'],

'age': [12, 12, 13, 13, 14, 12],

'height': [173, 192, 186, 167, 151, 159],

'weight': [35, 32, 33, 30, 31, 32],

'address': ['street1', 'street2', 'street3', 'street1', 'street2', 'street4']},

index=['S1', 'S2', 'S3', 'S4', 'S5', 'S6'])

2. Write a Pandas program to split the following dataframe by school code and get mean, min, and max value of age for each school.

3. Write a Pandas program to split the following given dataframe into groups based on school code and class.

4. Write a Pandas program to create and display a DataFrame from a specified dictionary data which has the index labels.

Sample DataFrame:

exam_data = {'name': ['Anastasia', 'Dima', 'Katherine', 'James', 'Emily', 'Michael', 'Matthew', 'Laura', 'Kevin', 'Jonas'],

'score': [12.5, 9, 16.5, np.nan, 9, 20, 14.5, np.nan, 8, 19],

'attempts': [1, 3, 2, 3, 2, 3, 1, 1, 2, 1],

'qualify': ['yes', 'no', 'yes', 'no', 'no', 'yes', 'yes', 'no', 'no', 'yes']}

labels = ['a', 'b', 'c', 'd', 'e', 'f', 'g', 'h', 'i', 'j']

5. Find number of null values in above dataframe.

6. Fill null values using mean.

7. Plot any two chart.

8.Save dataframe as csv file.