1. **PandasDataframes:**

Consider Sample Python dictionary data and list labels:

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']

## Writea Pandas program to create and displaya DataFrame froma specified dictionary data which has the index labels.

## Write a Pandas program to change the name 'James' to 'Suresh' in name column of the DataFrame.

## WriteaPandas program to insert a new columnin existing DataFrame.

## Writea Pandas program to get list from DataFrame column headers.

## Write a Pandas programto display the default index and set a column as an Index in a given dataframe.

## Writea Pandas program to create an index labels by using64-bit integers,using floating-point numbers in a given dataframe.

## Writea Pandas program to convert all the string values to upper,lower cases in a given pandas series. Also find the length of the string values.

## Writea Pandas program to remove whitespaces,leftsided whitespaces and right sided whitespaces of the string values of a given pandas series

## Write a Pandas program to join the two given dataframesalong rows and assign all data.

## Writea Pandas program to append a list of dictionaries or series to an existing DataFrame and display the combined data.

## Writea Pandas program to join the two dataframes with matching records from both sides where available.

1.Write a Pandas program to create a dataframe from a dictionary and display it.

Sample data: {'X':[78,85,96,80,86], 'Y':[84,94,89,83,86],'Z':[86,97,96,72,83]}

Expected Output:

X Y Z

0 78 84 86

1 85 94 97

2 96 89 96

3 80 83 72

4 86 86 83

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

Sample Python dictionary data and list labels:  
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']

3.Write a Pandas program to get the first 3 rows of a given DataFrame.

## 4. Write a Pandas program to select the 'name' and 'score' columns from the following DataFrame.

## 5.Write a Pandas program to select the specified columns and rows from a given data frame.

**Python Code :**

## 6.Write a Pandas program to select the rows where the number of attempts in the examination is greater than 2.

**Python Code :**

## 7.Write a Pandas program to count the number of rows and columns of a DataFrame.

**Python Code :**

## 8. Write a Pandas program to select the rows where the score is missing, i.e. is NaN.