**Pandas Dataframe**

**Assignment 3**

1. Write a Pandas program to get list from DataFrame column headers.
2. Write a Pandas program to rename columns of a given DataFrame.

**Sample data:**

Original DataFrame

col1 col2 col3

0 1 4 7

1 2 5 8

2 3 6 9

New DataFrame after renaming columns:

Column1 Column2 Column3

0 1 4 7

1 2 5 8

2 3 6 9

1. Write a Pandas program to add one row in an existing DataFrame.
2. Write a Pandas program to write a DataFrame to CSV file using tab separator.
3. Write a Pandas program to count city wise number of people from a given of data set (city, name of the person).
4. Write a Pandas program to replace all the NaN values with Zero's in a column of a dataframe.
5. Write a Pandas program to count the NaN values in one or more columns in DataFrame.
6. Write a Pandas program to drop 2nd and 4th rows from a specified DataFrame.
7. Write a Pandas program to combining two series into a DataFrame.
8. Write a Pandas program to rename a specific column name in a given DataFrame.
9. Write a Pandas program to get a list of a specified column of a DataFrame.
10. Write a Pandas program to get the datatypes of columns of a DataFrame.
11. Write a Pandas program to remove infinite values from a given DataFrame.
12. Write a Pandas program to insert a given column at a specific column index in a DataFrame.
13. Write a Pandas program to get first n records of a DataFrame.
14. Write a Pandas program to get last n records of a DataFrame.
15. Write a Pandas program to remove first n rows of a given DataFrame.
16. Write a Pandas program to remove last n rows of a given DataFrame.