

Lab 4 Pandas

1. Write a Pandas program to create and display a one-dimensional array-like object containing an array of data using Pandas module.
2. Write a Pandas program to convert a Panda module Series to Python list and it's type.
3. Write a Pandas program to add, subtract, multiple and divide two Pandas Series. Sample Series: [2, 4, 6, 8, 10], [1, 3, 5, 7, 9]
4. Write a Pandas program to compare the elements of the two Pandas Series. Sample Series: [2, 4, 6, 8, 10], [1, 3, 5, 7, 10]
5. Write a Pandas program to convert a dictionary to a Pandas series.
6. Write a Pandas program to get the index of an element of a given Series.
7. Write a Pandas program to select rows by filtering on one or more column(s) in a multi-index dataframe.
8. Write a Pandas program to insert a column at a specific index in a given DataFrame.
9. 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]}.
10. Write a Pandas program to add one row in an existing DataFrame.
Sample data:

```
Original DataFrame
  col1  col2  col3
0     1     4     7
1     4     5     8
2     3     6     9
3     4     7     0
4     5     8     1
After add one row:
  col1  col2  col3
0     1     4     7
1     4     5     8
2     3     6     9
3     4     7     0
4     5     8     1
5    10    11    12
```