```python
import pandas as pd

#(a)Create a series with 5 elements. Display the series sorted on
index and also sorted on values seperately.

lst1 = [3, 1, 4, 2, 5]
s1 = pd.Series(lst1)

indexSort = s1.sort_index()

valueSort = s1.sort_values()

print("Sorted by Index:")
print(indexSort)
print("\nSorted by Values:")
print(valueSort)
```

```
Sorted by Index:
0    3
1    1
2    4
3    2
4    5
dtype: int64

Sorted by Values:
1    1
3    2
0    3
2    4
4    5
dtype: int64
```

```python
'''(b)Create a series with N elements with some duplicate values.
Find the minimum and maximum ranks assigned to the values using
‘first’ and ‘max’ methods.'''


lst2 = [3, 1, 4, 2, 1, 5]
s2 = pd.Series(lst2)

minFirst = s2.rank(method='first').min()

max = s2.rank(method='max').max()

print("Minimum Rank using First Method :", minFirst)
print("Maximum Rank using Max Method :", max)
```

```
Minimum Rank using First Method : 1.0
Maximum Rank using Max Method : 6.0
```

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#(c) Display the index value of the minimum and maximum element of a
Series.


lst3 = [3, 1, 4, 2, 5]
s3 = pd.Series(lst3)

minIndex = s3.idxmin()

maxIndex = s3.idxmax()

print("Index of Minimum Element:", minIndex)
print("Index of Maximum Element:", maxIndex)
```

```
Index of Minimum Element: 1
Index of Maximum Element: 4
```