Ex.No: 4a	OPERATIONS OF LIST
Date:	

## AIM:

To write a python program to evaluate the operations of list.

## **ALGORITHM:**

- 1. Start the program.
- 2. Declare the list of items in library.
- 3. Prints first and fourth element in list.
- 4. Prints list elements from 0<sup>th</sup> index to 4<sup>th</sup> index.
- 5. Prints -7<sup>th</sup> or 3<sup>rd</sup> element from the list.
- 6. Appending an element from the list using append() function.
- 7. Finding index of the specified element.
- 8. Sorting the elements in list.
- 9. Popping an element using pop() function.
- 10. Removing the specified element in the list.
- 11. Inserting an element at specified index.
- 12. Displays all the elements in the list.
- 13. Stop the program.

## **Program:**

```
library=['Books', 'Periodicals', 'Newspaper', 'Manuscripts', 'Maps', 'Prints',
'Documents', 'Ebooks']
print('Library: ',library) print('first
                          ',library[0])
element:
print('fourth element:
                            ',library[3])
print('Items in library from 0 to 4 index: ',library[0:5])
print('3<sup>rd</sup> or -7<sup>th</sup> element: ',library[-7]) print('Library list
 after append(): ',library)
print('Index of \'newspaper\':
                                         ',library.index('newspaper'))
library.sort()
print('after sorting:
                        ',library);
print('popped element is:
        ',library.pop())
print('after pop(): ',library)
library.remove('maps')
print('after removing \'maps\':
                                      ',library)
library.insert(2,'CDs')
print('after insert:
                         ',library)
print('Number of elements in Library list:
                                                    ',library.count('Ebooks'))
```

## **OUTPUT:**

```
Library: ['Books', 'Periodicals', 'Newspaper', 'Manuscripts', 'Maps', 'Prints', 'Documents',
'Ebooks'] first element: Books

fourth element: Manuscripts

Items in library from 0 to 4 index: ['Books', 'Periodicals', 'Newspaper', 'Manuscripts', 'Maps']

3rd or -7th element: Periodicals

Library list after append(): ['Books', 'Periodicals', 'Newspaper', 'Manuscripts', 'Maps', 'Prints', 'Documents', 'Ebooks']
```

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	Thus the program to evaluate the operations of list is executed.
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