

DS LAB PROGRAM 5&6 OUTPUT :

SinglelyLinkedList.exe

```
1:Insert_front
2:Insert_rear
3:Insert_AtSpecfiedLocation
4>Delete_front
5>Delete_rear
6>Delete_AtSpecfiedLocation
7:Display_list
8:Exit
enter the choice
3
enter the item to be inserted at loaction
1
enter the position :    22
invalid pos
```

```
1:Insert_front
2:Insert_rear
3:Insert_AtSpecfiedLocation
4>Delete_front
5>Delete_rear
6>Delete_AtSpecfiedLocation
7:Display_list
8:Exit
enter the choice
1
enter the item at front-end
23
```

```
1:Insert_front
2:Insert_rear
3:Insert_AtSpecfiedLocation
4>Delete_front
5>Delete_rear
6>Delete_AtSpecfiedLocation
7:Display_list
8:Exit
enter the choice
2
enter the item at rear-end
33
```

```
1:Insert_front
 2:Insert_rear
3:Insert_AtSpecfiedLocation
4>Delete_front
5>Delete_rear
6>Delete_AtSpecfiedLocation
7:Display_list
8:Exit
enter the choice
7
23
33
```

```
1:Insert_front
 2:Insert_rear
3:Insert_AtSpecfiedLocation
4>Delete_front
5>Delete_rear
6>Delete_AtSpecfiedLocation
7:Display_list
8:Exit
enter the choice
1
enter the item at front-end
43
```

```
1:Insert_front
 2:Insert_rear
3:Insert_AtSpecfiedLocation
4>Delete_front
5>Delete_rear
6>Delete_AtSpecfiedLocation
7:Display_list
8:Exit
enter the choice
7
43
23
33
```

```
1:Insert_front
 2:Insert_rear
3:Insert_AtSpecfiedLocation
4:Delete_front
5:Delete_rear
6:Delete_AtSpecfiedLocation
7:Display_list
8:Exit
enter the choice
4
item deleted at front-end is= 43
```

```
1:Insert_front
 2:Insert_rear
3:Insert_AtSpecfiedLocation
4:Delete_front
5:Delete_rear
6:Delete_AtSpecfiedLocation
7:Display_list
8:Exit
enter the choice
2
enter the item at rear-end
63
```

```
1:Insert_front
 2:Insert_rear
3:Insert_AtSpecfiedLocation
4:Delete_front
5:Delete_rear
6:Delete_AtSpecfiedLocation
7:Display_list
8:Exit
enter the choice
3
enter the item to be inserted at loaction
89
enter the position :    2
```

```
1:Insert_front
2:Insert_rear
3:Insert_AtSpecfiedLocation
4:Delete_front
5:Delete_rear
6:Delete_AtSpecfiedLocation
7:Display_list
8:Exit
enter the choice
4
item deleted at front-end is= 23
```

```
1:Insert_front
2:Insert_rear
3:Insert_AtSpecfiedLocation
4:Delete_front
5:Delete_rear
6:Delete_AtSpecfiedLocation
7:Display_list
8:Exit
enter the choice
6
enter the position :    2
item deleted is 33
```

```
1:Insert_front
2:Insert_rear
3:Insert_AtSpecfiedLocation
4:Delete_front
5:Delete_rear
6:Delete_AtSpecfiedLocation
7:Display_list
8:Exit
enter the choice
7
89
63
```

```
1:Insert_front
2:Insert_rear
3:Insert_AtSpecfiedLocation
4:Delete_front
5:Delete_rear
6:Delete_AtSpecfiedLocation
7:Display_list
8:Exit
enter the choice
5
item deleted at rear-end is 63
```

```
1:Insert_front
2:Insert_rear
3:Insert_AtSpecfiedLocation
4>Delete_front
5>Delete_rear
6>Delete_AtSpecfiedLocation
7:Display_list
8:Exit
enter the choice
5
item deleted at rear-end is 63
1:Insert_front
2:Insert_rear
3:Insert_AtSpecfiedLocation
4>Delete_front
5>Delete_rear
6>Delete_AtSpecfiedLocation
7:Display_list
8:Exit
enter the choice
5
item deleted is 89

1:Insert_front
2:Insert_rear
3:Insert_AtSpecfiedLocation
4>Delete_front
5>Delete_rear
6>Delete_AtSpecfiedLocation
7:Display_list
8:Exit
enter the choice
5
list is empty cannot delete

1:Insert_front
2:Insert_rear
3:Insert_AtSpecfiedLocation
4>Delete_front
5>Delete_rear
6>Delete_AtSpecfiedLocation
7:Display_list
8:Exit
enter the choice
8
Press any key to continue . . .
```