ASSIGNMENT-1

CSE-204, COURSE: DATA STRUCTURE SESSIONAL

Initialize a dynamic array and ask user to give input the initial size and elements of the array. Also create the following menu:

1. Insert element at the first position of the array
2. Insert element at the last position of the array
3. Insert element at any position of the array
4. Delete an element from the first position of the array
5. Delete an element from the first position of the array
6. Delete an element from any position of the array
7. Update any value of any position of the array
8. Quit

Create different functions for the different options. Make sure, the size of the array is updated after each insert and delete.

```
Enter the size of the array: 5
Enter the elements of the array: 10 12 5 70 11
The resultant array: 10 12 5 70 11
Choose one of the option:
    1.  Insert element at the first position of the array
    2.  Insert element at the last position of the array
    3.  Insert element at any middle position of the array
    4.  Delete an element from the first position of the array
    5.  Delete an element from the first position of the array
    6.  Delete an element from any position of the array
    7.  Update any value of any position of the array
    8.  Quit
Enter option: 1
Enter value: 4
The resultant array: 4 10 12 5 70 11
Enter option: 2
Enter value: 8
The resultant array: 4 10 12 5 70 11 8
Enter option: 3
Enter position: 2
Enter value: 50
The resultant array: 4 50 10 12 5 70 11 8
Enter option: 4
The resultant array: 50 10 12 5 70 11 8
Enter option: 5
The resultant array: 50 10 12 5 70 11
Enter option:6
Enter position: 8
Entered position is not a valid one.
Enter option:6
Enter position: 4
The resultant array: 50 10 12 70 11
Enter option:7
Enter position: 4
Enter value: 9
The resultant array: 50 10 12 9 11
Enter option:8
```