

Lab Task 02

Question no 1:

```
#include <iostream>
using namespace std;

int main() {
    int a[10];
    cout << "Enter age of 10 users: ";
    for (int i = 0; i < 10; i++) {
        cin >> a[i];
    }
    int max_age = a[0];
    for (int i = 1; i < 10; i++) {
        if (a[i] > max_age) {
            max_age = a[i];
        }
    }
    cout << "Largest age of the student is: " << max_age << endl;
    return 0;
}end main
```

Output

```
Enter age of 10 users: 12
45
13
56
21
22
23
54
25
14
Largest age of the student is: 56
```

Question no 2:

```
#include <iostream>
using namespace std;

int main() {
    int =3;

    int* arr1 = new int[size];
    int* arr2 = new int[size];
    int* arr3 = new int[size];
    int* sum_arr = new int[size];

    cout << "Enter elements for the first array: ";
    for (int i = 0; i < size; i++) {
        cin >> arr1[i];
    }

    cout << "Enter elements for the second array: ";
    for (int i = 0; i < size; i++) {
        cin >> arr2[i];
    }

    cout << "Enter elements for the third array: ";
    for (int i = 0; i < size; i++) {
        cin >> arr3[i];
    }

    for (int i = 0; i < size; i++) {
        sum_arr[i] = arr1[i] + arr2[i] + arr3[i];
    }

    cout << "Sum array: ";
    for (int i = 0; i < size; i++) {
        cout << sum_arr[i] << " ";
    }
    cout << endl;

    return 0;
}
```

Output

```
Enter elements for the first array: 4
5
6
Enter elements for the second array: 12
5
4
Enter elements for the third array: 3
5
1
Sum array: 8 15 11
```

Question no 3:

```
#include <iostream>
using namespace std;

int main() {
    int size=5;

    int* arr = new int[size];

    cout << "Enter elements for the array: ";
    for (int i = 0; i < size; i++) {
        cin >> arr[i];
    }

    int item;
    cout << "Enter the item to search: ";
    cin >> item;

    int found = 0;
    for (int i = 0; i < size; i++) {
        if (arr[i] == item) {
            cout << "Item found at index " << i << endl;
            found = 1;
            break;
        }
    }

    if (!found) {
        cout << "Item not found in the array" << endl;
    }

    return 0;
}
```

Output

```
Enter elements for the array: 5
1
6
2
3
Enter the item to search: 5
Item found at index 0
```