LAB TASK # 02

CODE # 01:

```
#include <iostream>
using namespace std;
int main() {
  int Students = 10;
  int ages[Students];
  int largestAge = 0;
  for (int i = 0; i < Students; i++) {
     cout << "Enter the age of student " << i + 1 << ": ";
     cin >> ages[i];
  }
  for (int i = 0; i < Students; i++) {
     if (ages[i] > largestAge) {
       largestAge = ages[i];
  cout << endl;
  cout << "The largest age among the students is: " << largestAge << endl;
  return 0;
}
```

CODE # 02:

```
#include <iostream>
using namespace std;
int main() {
  int size;
  cout << "Enter the size of each array: ";</pre>
  cin >> size;
  int *arr1 = new int[size];
  int *arr2 = new int[size];
  int *arr3 = new int[size];
  int *result = new int[size];
  cout << "Enter elements for the first array:\n";</pre>
  for (int i = 0; i < size; i++) {
     cout << "Element " << i + 1 << ": ";
     cin >> arr1[i];
  }
  cout << "Enter elements for the second array:\n";</pre>
  for (int i = 0; i < size; i++) {
     cout << "Element " << i + 1 << ": ";
     cin >> arr2[i];
  }
  cout << "Enter elements for the third array:\n";</pre>
  for (int i = 0; i < size; i++) {
     cout << "Element " << i + 1 << ": ";
```

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cin >> arr3[i];
  for (int i = 0; i < size; i++) {
     result[i] = arr1[i] + arr2[i] + arr3[i];
  }
  cout << "Result of adding the three arrays:\n";</pre>
  for (int i = 0; i < size; i++) {
     cout << "Element" << i + 1 << ": " << result[i] << endl;
  }
  delete[] arr1;
  delete[] arr2;
  delete[] arr3;
  delete[] result;
  return 0;
}
CODE # 03:
#include <iostream>
using namespace std;
int main() {
  int size, item, index = -1;
  cout << "Enter size of the array: ";</pre>
  cin >> size;
  int* arr = new int[size];
```

```
cout << "Enter elements of the array:\n";</pre>
for (int i = 0; i < size; ++i) {
  cout << "Element " << i + 1 << ": ";
  cin >> arr[i];
cout << "Enter the item to search for: ";</pre>
cin >> item;
for (int i = 0; i < size; ++i) {
  if (arr[i] == item) {
     index = i;
     break;
if (index != -1) {
  cout << "Item found at index " << index << " (position " << index + 1 << ")." << endl;
} else {
  cout << "Item not found in the array." << endl;
}
delete[] arr;
return 0;
```