OOP-LABII(Spring 2023)

Objectives of Lab:

To understand the use of one dimensional and multidimensional arrays

Task 1:

Write a java program to test, whether an array contains a particular value or not

Sample output:

Input the element you want to search: 32

Not Found!

Task 2:

Write a program which prompts the user for character input for 6 times, and store the values in an array, Now Reverse the array (Do not print the array in reverse order, change the position of elements in such a way, that first element becomes last element, second element becomes second last element.

Task 3:

Grading Quizzes

Write a program that grades arithmetic quizzes as follows:

1. Ask the user how many questions are in the quiz.
2. Ask the user to enter the key (that is, the correct answers). There should be one answer for each question in the quiz, and each answer should be an integer. They can be entered on a single line, e.g., 34 7 13 100 81 3 9 10 321 12 might be the key for a 10-question quiz. You will need to store the key in an array.
3. Ask the user to enter the answers for the quiz to be graded. As for the key, these can be entered on a single line. Again there needs to be one for each question. Note that these answers do not need to be stored; each answer can simply be compared to the key as it is entered.
4. When the user has entered all of the answers to be graded, print the number correct and the percent correct.

When this works, add a loop so that the user can grade any number of quizzes with a single key. After the results have been printed for each quiz, ask "Grade another quiz? (y/n)."

Task 4:

Create an array

Task 4:

Write a java program to add two matrices of same dimensions and print the results

```
Input number of rows of matrix
2
Input number of columns of matrix
2
Input elements of first matrix
1
2
3
4
Input the elements of second matrix
5
6
7
8
Sum of the matrices:-
6       8
10      12
```

Task 5:

Write a java program to find the number of even and odd elements in an array of integers

Task 6:

Write a java program to find the difference between largest and smallest element in an array of Integers, first you need to find the largest element and smallest element, than compute the difference

Task 7:

Write a java program to check the equality of two arrays, both arrays are two dimensional, having 5 rows and 3 columns, you can Initialize them with values of your choice.

Task 8:

Write a java program to sum the diagonal elements of a 7*7 matrix