**package** searchsort;

**import** java.util.Scanner;

**import** javax.swing.JOptionPane;

**public** **class** Linear\_search {

**public** **static** **int** mymethod(**int** arr[], **int** x)

/\*\*

\* setting up a method mymethod containing linear search adopting for loop

\* input :

\* int arr[] : array that the list will search

\* int x : item being searched in the array

\* output :

\* return i : outputs the index of the item being search

\* return -1 : when the item is not found

\*\*/

{

**int** n = arr.length;

**for** (**int** i = 0; i < n; i++)

{

**if** (arr[i] == x)

**return** i;

}

**return** -1;

}

**public** **static** **void** main (String[] args) {

String slen = JOptionPane.*showInputDialog*("Input Length of the array");

**int** len = Integer.*parseInt*(slen);

**int**[] arr= **new** **int**[len];

**for** (**int** d=0;d<len;d++) {

String sel = JOptionPane.*showInputDialog*("Input element of the array");

**int** el = Integer.*parseInt*(sel);

arr[d]=el;

}

String ssearch = JOptionPane.*showInputDialog*("Please input item you wish to search");

**int** search = Integer.*parseInt*(ssearch);

**int** result = *mymethod*(arr, search);

**if** (result == -1) {

JOptionPane.*showMessageDialog*(**null**, "Element is not present in array");

}

**else** {

String full = "";

**for** (**int** i=0;i<len;i++) {

full = full + arr[i]+" ";

}

JOptionPane.*showMessageDialog*(**null**, "In array " + full + ", Element "+ search + " is present at index "+ result);

}

}

}





