**Practice project - Assisted**

Write a program in Java implementing the linear search algorithm

**import** java.util.Scanner;

**public** **class** linearSearch {

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

**int**[] arr = {10,20,30,40,50};

Scanner sc = **new** Scanner(System.***in***);

System.***out***.println("Enter the element to be searched");

**int** searchValue = sc.nextInt();

**int** result = (**int**) *linearing*(arr,searchValue);

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

System.***out***.println("Element not in the array");

} **else** {

System.***out***.println("Element found at "+result+" and the search key is "+arr[result]);

}

}

**public** **static** **int** linearing(**int** arr[], **int** x) {

**int** arrlength = arr.length;

**for** (**int** i = 0; i < arrlength - 1; i++) {

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

**return** i;

}

}

**return** -1;

}

}