

**East West University**

**Department of Computer Science and Engineering**

**Spring2024 Semester**

**Lab Report**

**LAB: 01**

**Experiment Name: Search an element by using Linear search.**

**Course Code: CSE207.**

**Course Title: Data Structures.**

**Section: 04.**

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Source Code:

**package** Searching;

**public class** SearchingAlgorithm{

**int**[]data;

**public** SearchingAlgorithm(**int**[]data) {

**this**.data=data;

}

**public void** linearSearch(**int** item) {

**boolean** found=**false**;

**int** location=-1;

**for**(**int** i=0;i<data.length;i++) {

**if**(item==data[i]) {

found=**true**;

location=i;

**break**;

}

}

**if**(found==**true**) {

System.***out***.println("Item found this location:");

}

**else** {

System.***out***.println("Item is not found");

}

}

}

**package** Searching;

**import** java.util.Scanner;

**public class** Main {

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

**int**[]data=**new int**[10];

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

System.***out***.println("Enter"+data.length+ "values");

**for**(**int** i=0;i<data.length;i++) {

data[i]=input.nextInt();

}

SearchingAlgorithm search=**new** SearchingAlgorithm(data); search.linearSearch(8);

}

Input:

A white background with black text

Description automatically generated

Output:

A white background with black text

Description automatically generated