**DAILY ONLINE ACTIVITIES SUMMARY**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Date:** | **20-6-2020** | | | | | **Name:** | **Poojashree T** | |
| **Sem & Sec** | **8th sem B sec** | | | | | **USN:** | **4al16cs064** | |
| **Online Test Summary** | | | | | | | | |
| **Subject** | | **No Test** | | | | | | |
| **Max. Marks** | |  | | **Score** | | |  | |
| **Certification Course Summary** | | | | | | | | |
| **Course** | **Introduction to R language tutorial** | | | | | | | |
| **Certificate Provider** | | | **Great learning academy** | | **Duration** | | | **3.0hr** |
| **Coding Challenges** | | | | | | | | |
| **Problem Statement:** **1**. **to read the number and compute the series.**  **2. to count the number in th series.**  **3. to check whether number is palindrome or not.**  **4. to find the number between 0 and 50 which are not divisible by 2 and 3.**  **5.micro and array update**  Top of Form | | | | | | | | |
| **Status:completed** | | | | | | | | |
| **Uploaded the report in Github** | | | | | **yes** | | | |
| **If yes Repository name** | | | | | **Poojatgowda** | | | |
| **Uploaded the report in slack** | | | | | **yes** | | | |

**Online test**

No Test

**Certification course**



Coding

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**Example Program to perform binary search on a list of integer numbers**

This program uses [binary search algorithm](https://en.wikipedia.org/wiki/Binary_search_algorithm) to search an element in given list of elements.

/\* Program: Binary Search Example

\* Written by: Chaitanya from beginnersbook.com

\* Input: Number of elements, element's values, value to be searched

\* Output:Position of the number input by user among other numbers\*/

import java.util.Scanner;

class BinarySearchExample

{

public static void main(String args[])

{

int counter, num, item, array[], first, last, middle;

//To capture user input

Scanner input = new Scanner(System.in);

System.out.println("Enter number of elements:");

num = input.nextInt();

//Creating array to store the all the numbers

array = new int[num];

System.out.println("Enter " + num + " integers");

//Loop to store each numbers in array

for (counter = 0; counter < num; counter++)

array[counter] = input.nextInt();

System.out.println("Enter the search value:");

item = input.nextInt();

first = 0;

last = num - 1;

middle = (first + last)/2;

while( first <= last )

{

if ( array[middle] < item )

first = middle + 1;

else if ( array[middle] == item )

{

System.out.println(item + " found at location " + (middle + 1) + ".");

break;

}

else

{

last = middle - 1;

}

middle = (first + last)/2;

}

if ( first > last )

System.out.println(item + " is not found.\n");

}

}

Output 1:

Enter number of elements:

7

Enter 7 integers

4

5

66

77

8

99

0

Enter the search value:

77

77 found at location 4.

Output 2:

Enter number of elements:

5

Enter 5 integers

12

3

77

890

23

Enter the search value:

99

99 is not found.