**AIM**

Write a C program to search a number using Binary Search method

**ALGORITHM:**

 Start the program.

 Read the size of the array n.

 Input the n elements into the array (must be sorted).

 Read the key element to be searched.

 Initialize low = 0, high = n-1.

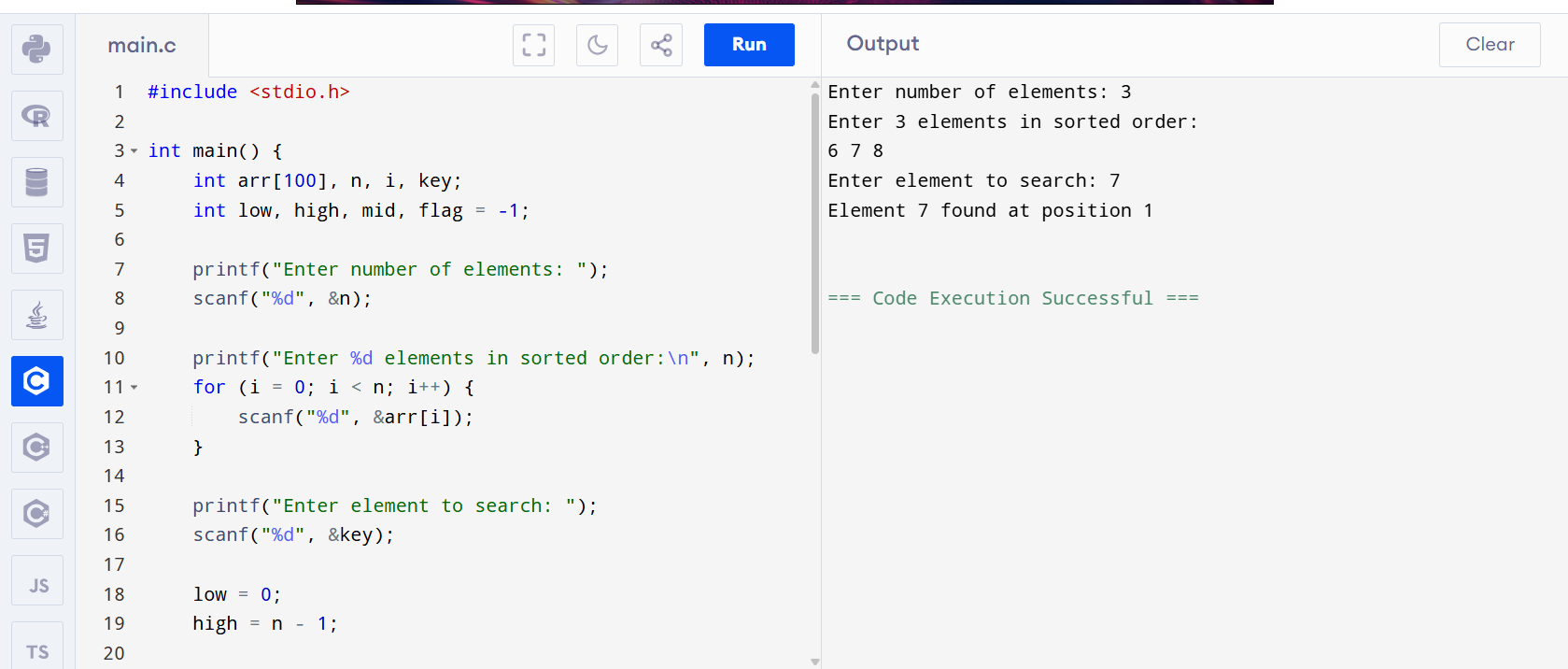
 Repeat while low <= high:

* Find middle: mid = (low + high) / 2.
* If arr[mid] == key, element is found at mid.
* If arr[mid] < key, set low = mid + 1.
* Else set high = mid - 1.

 If element not found, display "Not found".

 End the program.

**CODE:**

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**Output**

Enter number of elements: 3

Enter 3 elements in sorted order:

6 7 8

Enter element to search: 7

Element 7 found at position 1