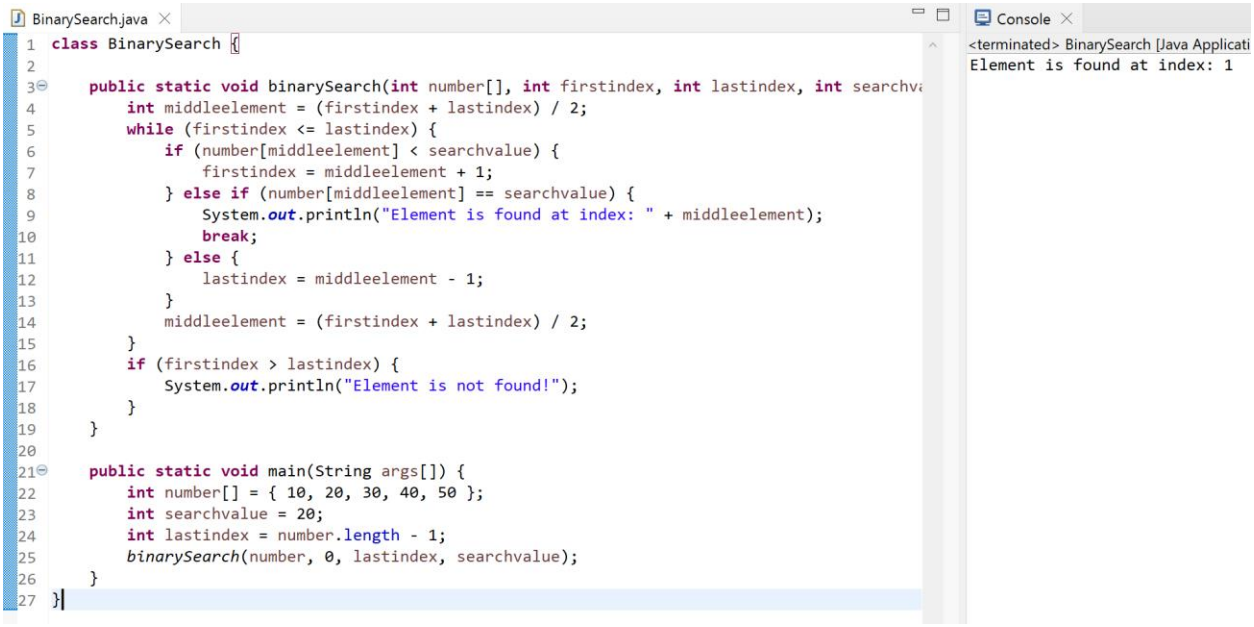
Binary Search Program Screenshots




```java
class BinarySearch {

    public static void binarySearch(int number[], int firstindex, int lastindex, int searchva
        int middleelement = (firstindex + lastindex) / 2;
        while (firstindex <= lastindex) {
            if (number[middleelement] < searchvalue) {
                firstindex = middleelement + 1;
            } else if (number[middleelement] == searchvalue) {
                System.out.println("Element is found at index: " + middleelement);
                break;
            } else {
                lastindex = middleelement - 1;
            }
            middleelement = (firstindex + lastindex) / 2;
        }
        if (firstindex > lastindex) {
            System.out.println("Element is not found!");
        }
    }

    public static void main(String args[]) {
        int number[] = { 10, 20, 30, 40, 50 };
        int searchvalue = 20;
        int lastindex = number.length - 1;
        binarySearch(number, 0, lastindex, searchvalue);
    }
}
```