**package** org.binarysearchalgorithm;

**public** **class** Binarysearchalgorithm {

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

**int**[] arr = {3,6,9,12,15};

**int** key = 12;

**int** arrlength = arr.length;

*binarySearch*(arr,0,key,arrlength);

}

**public** **static** **void** binarySearch(**int**[] arr, **int** start, **int** key, **int** length){

**int** midValue = (start+length)/2;

**while**(start<=length){

**if**(arr[midValue]<key){

start = midValue + 1;

} **else** **if**(arr[midValue]==key){

System.***out***.println("Element is found at index :"+midValue);

**break**;

}**else** {

length=midValue-1;

}

midValue = (start+length)/2;

}

**if**(start>length){

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

}

}

}