```
package ap_2;
public class BinarySearch {
          public static void main(String[] args){
            int[] arr = \{2,4,6,8,10\};
            int key = 6;
            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){</pre>
                 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");
               }
       }
       }
                                                   ■ Console ×
   <terminated> BinarySearch [Java Application] C:\Users\Meljo\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win3.
   Element is found at index :2
                                                                                            Activate
```