

```
#program to demonstarte Binary search
def binary_search(A,key,low,high):
    if low<high:
        mid=(low+high) //2
        if A[mid]==key:
            return mid
        elif key<A[mid]:
            return binary_search(A,key,low,mid)
        else:
            return binary_search(A,key,mid+1,high)
    else:
        print("Key not Found")
A=[4,5,8,9,10]
key=int(input("Enter key to be searched:"))
result=binary_search(A,key,0,len(A))
print("key found at position:",result+1)

*****output*****
*****
Enter key to be searched:8
key found at position: 3
```