```python
def binary_search(arr,rollno):
    first=0
    last=len(arr)-1
    found=False
    while(first<=last and not found ):
        mid = (first + last)//2
        if arr[mid] == rollno:
            found=True
        else:
            if rollno<arr[mid]:
                last=mid-1
            else:
                first=mid+1
    return found


arr=[1,2,3,4,5,8,9,10,11]
rollno=int(input("rollno found"))
found= binary_search(arr,rollno)
if found==True:
    print("student attended program")
else:
    print("student did not attend program")



```
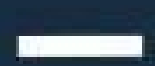
```
rollno found5
student attended program

[Program finished]
```

```
1  arr=[10,20,30,40,50]
2  print('arr',arr)
3
4  rollno=int(input('enter rollno to be
   searched'))
5
6  found=True
7  for i in range (len(arr)):
8      if arr[i] == rollno:
9          found ==True
10         print(rollno,'student attended
   program' )
11         |
12
13
14
15  if found==False:
16
17         print(rollno,'student not attended
   program')
18
```
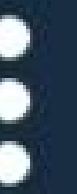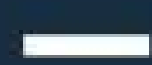
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```
arr [10, 20, 30, 40, 50]
enter rollno to be searched30
30 student attended program

[Program finished]█
```