

~\file 10.py

```
1 def merge_list(list1,list2):
2     result_list=[]
3
4     # iterate first list
5     for num in list1:
6         #check if current number is odd
7         if num % 2!=0:
8             #add odd number to result list
9             result_list.append(num)
10    # iterate secont list
11    for num in list2:
12        #check if current number is even
13        if num % 2 == 0:
14            #add even number to result list
15            result_list.append(num)
16    return result_list
17 list1=[10,20,25,30,35]
18 list2=[40,45,60,75,90]
19 print(" result list:",merge_list(list1,list2))
```