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1  ## Reverse a list in python
2  a=[1,2,3,4,5]
3  b=[]
4  for i in range(len(a)-1,-1,-1):
5      b.append(a[i])
6  print(b)          #24CS212
7
8  ## Concatenate two lists
9  a=['1','2','3','4','5']
10 b=['a','s','d','f','g']
11 c=[]
12 for i in range(0,len(a)):
13     c.append(a[i]+b[i])
14 print(c)          #24CS212
15
16 ## turn Every item of a list into its square
17 a=[1,2,3,4,5,6,7,8,9,10]
18 b=[]
19 for i in range(len(a)):
20     b.append(a[i]**2)
21 print(b)          #24CS212
22
23
24 ## Remove empty strings from list of strings
25 a=['','adc','sdf','asdf','','']
26 b=[]
27 for i in range(len(a)):
28     if a[i]!='':
29         b.append(a[i])
30 print(b)          #24CS212
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32 ## iterate both lists simultaneously
33 a=['1','2','3','4','5']
34 b=['a','s','d','f','g']
35 c=[]
36 for i in range(len(a)):
37     c.append(a[i]+b[i])
38 print(c)          #24CS212
39
40 ## Add new item to list after a specified item
41 a=[1,2,3,4,5]
42 b=int(input("Enter the number to be added:"))
43 c=int(input("Enter the number after which to add:"))
44 d=[]
45 for i in range(len(a)):
46     d.append(a[i])
47     if a[i]==c:
48         d.append(b)
49 print(d)          #24CS212
50
51 ## Extend nested list by adding the sublist
52 a=[[1,2,3],[4,5,6],[7,8,9]]
53 b=[10,11,12]
54 c=[]
55 for i in range(len(a)):
56     c.append(a[i])
57     if a[i]==[4,5,6]:
58         c.append(b)
59 print(c)          #24CS212
60
61 # Replace list's item with new value if found
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