

```
1  # For iterates through iterable objects
2  print('loop 1:')
3  fruits = ['apple', 'banana', 'cherry', 'watermelon']
4  for f in fruits:
5      print(f)
6
7  print('loop 2:')
8  txt = 'any string'
9  for s in txt:
10     if (s == ' '): # to skip space character
11         continue
12     print('charater is:',s)
13
14 # Break
15 fruits = ['apple', 'banana', 'cherry', 'watermelon']
16 print('loop 3:')
17 for f in fruits:
18     print(f)
19     if (f == 'banana'):
20         break
21
22 print('out of for')
23
24 # Continue
25 fruits = ['apple', 'banana', 'cherry', 'watermelon']
26 print('loop 4:')
27 for f in fruits:
28     if (f == 'banana'):
29         continue
30     print(f)
31
32 print('out of for')
33
34 #the range() function
35 """
36 example:
37 range(6)
38 returns sequence of numbers,
39 starting by 0 (by default),
40 increments by 1 (by default),
41 ends at the specified number (6 is not included)
42 ⇒ [0, 1, 2, 3, 4, 5]
43 """
44 print('loop 5:')
45 for x in range(6):
46     print(x)
47
48 print('loop 6: ')
49 for x in range(2,6): # starts by 2 instead of 0
50     print(x)
```

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51
52 print('loop 7: ')
53 for x in range(2,20, 3): # starts by 2 instead of 0
54     print(x)
55
56 # Else statement
57 print('loop 8:')
58 for x in range(2,6): # starts by 2 instead of 0
59     print(x)
60 else:
61     print('for is done') # printable since out of for due to condition
62
63 print('loop 9:')
64 for x in range(2,6): # starts by 2 instead of 0
65     if x == 4:
66         break
67     print(x)
68 else:
69     print('for is done') # not executed since it's out of for by a break
70
71 # pass
72 print('loop 10:')
73 for i in range(5, 230, 7):
74     pass
75 print(i)
76 print('out of for')
77
78 # Nested for
79 print('loop 11:')
80 adj = ['red', 'big', 'tasty']
81 fruits = ['apple', 'banana', 'cherry']
82 for a in adj:
83     for f in fruits:
84         print(a, f)
85
86 # Exercise 1
87 """
88 Using for loop, read a list from user (take 10 int inputs).
89 """
90 print('Exercise 1:')
91 nums = []
92 for i in range(10):
93     val = int(input("Enter a numeric value: "))
94     nums.append(val)
95 print("Result:", nums)
```