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sandeepsuryaprasad Update ...

Latest commit f092553 on 26 Oct 2021

 History 1 contributor

80 lines (62 sloc) | 2.51 KB

Raw

Blame



```
1 # range(start, end, step)
2 # Start index is always included.
3 # End index is always excluded.
4
5 # Prints numbers from 0 to 4 (upto 5 but not including 5)
6 for num in range(0, 5):
7     print(num) # prints 0, 1, 2, 3, 4
8
9 # Prints numbers from 0 to 4 (num starts from zero if start index is omitted)
10 for num in range(5):
11     print(num) # Prints 0, 1, 2, 3, 4
12
13 # Prints every alternate numbers starting zero
14 for num in range(0, 10, 2):
15     print(num) # Prints 0, 2, 4, 6, 8
16
17 # Prints number from 10 to 1
18 # In the below example end index is zero. So python prints numbers from
19 # 10 to 1. End index excluded.
20 for num in range(10, 0, -1):
21     print(num) # Prints 10, 9, 8, 7, 6, 5, 4, 3, 2, 1
22
23 # Prints number from 10 to 0
24 for num in range(10, -1, -1):
25     print(num) # Prints 10, 9, 8, 7, 6, 5, 4, 3, 2, 1, 0
26
27 # Prints alternate numbers from 10 to 0.
```

```
28 for num in range(10, -1, -2):
29     print(num)          # Prints 10, 8, 6, 4, 2, 0
30
31 # Prints "Python is awesome!!" 5 times
32 for i in range(5):
33     print('Python is awesome!!')
34
35 for _ in range(5):
36     print('Python is awesome!!')
37 # Since we are not making use of any loop variable inside for loop, we
38 # can simply give _ (underscore). _ is called throw away variable in Python.
39
40 #####
41 greeting = "hello world"
42 # Iterating over string using range function. (non pythonic style)
43 for index in range(0, len(greeting)):
44     print(greeting[index])
45
46 # iterating over a string in reversed direction
47 greeting = "hello world"
48
49 for i in range(len(greeting)-1, -1, -1):
50     print(greeting[i])
51
52 # Printing Index and Character using range function (not preferred method)
53 for index in range(0, len(greeting)):
54     print(f" Character {greeting[index]} is at index {index}")
55
56 # Printing alternate characters of the string using range function (not preferred)
57 for index in range(0, len(greeting), 2):
58     print(greeting[index])
59
60 #####
61 # Iterating over a string (Pythonic Style)
62 greeting = 'hello world'
63
64 for item in greeting:
65     print(item)
66
67 # Getting index and item in a string (Pythonic Style)
68 for index, item in enumerate(greeting):
69     print(f" Character {item} is at index {index}")
70 #####
71 # Iterating over multiple string objects using zip function
72 s1 = 'hello'
```

```
73 s2 = 'world'
74
75 for c1, c2 in zip(s1, s2):
76     print(c1, c2)
77
78 # Printing alternate characters of the string (Pythonic approach)
79 for c in greeting[::2]:
80     print(c)
```