

Loops

Spoken Tutorial Project

<http://spoken-tutorial.org>

National Mission on Education through ICT

<http://sakshat.ac.in>

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Learning Objectives



Learning Objectives

▶ **for loop**



Learning Objectives

- ▶ **for loop**
- ▶ **while loop**



Learning Objectives

- ▶ `for` loop
- ▶ `while` loop
- ▶ `break`, `continue` and `pass` statements in the loops



System Specifications



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▶ Ubuntu Linux 16.04



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- ▶ **Ubuntu Linux 16.04**
- ▶ **Python 3.4.3**



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- ▶ **Python 3.4.3**
- ▶ **IPython 5.1.0**



Pre-requisite

To practice this tutorial, you should know how to



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To practice this tutorial, you should know how to

- ▶ **use conditional statements**



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- ▶ use conditional statements

If not, see the relevant Python tutorials on <http://spoken-tutorial.org>



while loop



while loop

Syntax:

```
while <condition>:  
    #True block statements  
    #update condition variable  
#statements after while loop
```



Assignment 1

Write a **while** loop to print the squares of all the even numbers below 10



Assignment 2

Write a `for` loop to print the squares of all the even numbers below 10



Summary

- ▶ Iterate over a sequence using **for** and **while** loops
- ▶ Break out of loops using **break** statement
- ▶ Skip iterations using **continue** statement
- ▶ Use the **pass** statement in a loop



Evaluation

1. Given `range(1,4)`, write a code to print only the number 1
2. Which statement do you use to skip iterations?
 - ▶ `break`
 - ▶ `pass`
 - ▶ `continue`



Solution

```
1. for i in range(1, 4):  
    print (i)  
    break
```

```
2. continue
```



Forum to answer questions

- ▶ **Do you have questions in THIS Spoken Tutorial?**
- ▶ **Choose the minute and second where you have the question.**
- ▶ **Explain your question briefly.**
- ▶ **Someone from the FOSSEE team will answer them. Please visit**

<http://forums.spoken-tutorial.org/>



Forum to answer questions

- ▶ Questions not related to the Spoken Tutorial?
- ▶ Do you have general / technical questions on the Software?
- ▶ Please visit the FOSSEE Forum
<http://forums.fossee.in/>
- ▶ Choose the Software and post your question.



Textbook Companion Project

- ▶ **The FOSSEE team coordinates coding of solved examples of popular books**
- ▶ **We give honorarium and certificate to those who do this**

For more details, please visit this site:

<http://tbc-python.fossee.in/>



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- ▶ **It is supported by the National Mission on Education through ICT, MHRD, Government of India**
- ▶ **More information on this Mission is available at:**

<http://spoken-tutorial.org/NMEICT-Intro>



THANK YOU!

For more Information, visit our website
<http://fossee.in/>

