

Sequence Datatypes

Spoken Tutorial Project

<http://spoken-tutorial.org>

National Mission on Education through ICT

<http://sakshat.ac.in>

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Objectives

In this tutorial we will learn,



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In this tutorial we will learn,

- ▶ **Properties**
 - ▶ Data is in Sequence
 - ▶ Accessed using Index
- ▶ **Sequence Datatypes**
 - ▶ `list`
 - ▶ `string`
 - ▶ `tuple`



System Specifications



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- ▶ **Ubuntu Linux 14.04**



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- ▶ **Python 2.7.6**



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- ▶ **IPython 4.0.0**



Pre-requisite

To practise this tutorial, you should know how to -



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To practise this tutorial, you should know how to -

- ▶ run basic Python commands on the ipython console

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



Exercise 1

- ▶ Check if 3 is an element of the list `[1, 7, 5, 3, 4]`.
In case it is, then change it to 21.



Exercise 2

- ▶ Convert the string ~ “Elizabeth is queen of england” ~ to ~ “Elizabeth is queen” ~



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In this tutorial, we have learnt to,

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In this tutorial, we have learnt to,

- ▶ Use the sequence data types – `list`, `string` and `tuple`.
- ▶ Split and join a list using `split()` and `join()` function respectively.
- ▶ Convert `string` to `tuple` and vice-versa.



Evaluation

1. What is the major difference between `tuples` and `lists`?
2. Split this string on whitespaces
 - ▶ `string = 'Split this string on whitespaces'`



Solutions

1. `tuples` are immutable while `lists` are not.
2. `string.split()`



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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- ▶ **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/>

