Parsing Data

Spoken Tutorial Project
http://spoken-tutorial.org
National Mission on Education through ICT

http://sakshat.ac.in

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Objectives

At the end of this tutorial, we will learn to-

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- ▶ **Split a string using a delimiter.**

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- ▶ **Remove the whitespace around the string.**

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- ▶ **Remove the whitespace around the string.**
- ▶ **Convert the datatypes of variables from one type to other.**

System Specifications

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- **Ubuntu Linux 14.04**

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- `Python 2.7.6`
- `IPython 4.0.0`

Pre-requisite

To practise this tutorial, you should know how to

- ▶ **run basic Python commands on the ipython console**
- ▶ **use lists.**

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

Data set

- **File sslc.txt contains data as:**
- **A;015163;JOSEPH RAJ S;083;042;47;00;72;244;;;**

Data set

The following are the fields in any given line.

- **Region Code which is 'A'**
- **Roll Number 015163**
- **Name JOSEPH RAJ S**
- **Marks of 5 subjects: – English 083 – Hindi 042 – Maths 47 – Science 00 – Social 72**
- **Total marks 244**

Split the variable line using a space as argument
Is it same as splitting without an argument ?

What happens if you do `int("1.25")`

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- ▶ **Split a data separated by delimiters by using the function `split()`.**

- ▶ **Get rid of extra white spaces around using the `strip()` function.**

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In this tutorial, we have learnt to,

- **Tokenize a string using various delimiters like semi-colons.**

- **Split a data separated by delimiters by using the function `split()`.**

- **Get rid of extra white spaces around using the `strip()` function.**

- **Convert datatypes of numbers from one type to another.**

Summary

- Convert datatypes of numbers from one type to another.
- Parse input data and perform computations on it.

1. **How do you split the string "Guido;Rossum;Python" to get the words.**

Evaluation

1. **How do you split the string "Guido;Rossum;Python" to get the words.**

2. **How will you remove the extra whitespace in this sentence "   Hello   World   "**

3. **What does int("20.0") produce.**

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   - ▶ **20**
   - ▶ **20.0**
   - ▶ **Error**
   - ▶ **"20"**

1. **line.split(';')**

Solutions

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2. **"   Hello   World   ".strip()**

Solutions

1. **line.split(';')**
2. **"   Hello   World   ".strip()**
3. **Error**

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/

Acknowledgements

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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/