

Exception and Error handling in PERL

Spoken Tutorial Project

<http://spoken-tutorial.org>

National Mission on Education through ICT

<http://sakshat.ac.in>

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Learning Objectives

We will learn to



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- **Catch errors**



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System Requirements



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- **gedit Text Editor**



Pre-requisites

To follow this tutorial, you should have



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- Working knowledge of Perl Programming



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- Working knowledge of Perl Programming
- If not, for relevant Perl tutorials, visit <http://spoken-tutorial.org>



Exception and Error handling

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Exception and Error handling

When an error occurs:

- **Exception handling** - deviates the execution of a program from the normal execution path
- **Error handling** - helps to recover the program without terminating the application



warn() Function:



warn() Function:

- **warn** function only raises a warning message without taking further action

Example:

```
chdir('/downloads') or  
warn "Can't change directory"
```



die() Function:



die() Function:

- **die** function immediately terminates the execution and displays the error message

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die "Can't change directory"
```



eval() Function:



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- **Built-in errors:**



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 - **divide by zero**



eval() Function:

- **eval** function is used for handling run-time errors or exceptions
- Built-in errors:
 - out of memory
 - divide by zero
 - **user defined errors**



Syntax for `eval()`:

```
eval {.....};  
    if ($!) {  
        # deal with error here  
    }
```

\$! - special variable holds the error message



Summary

In this tutorial we have learnt how to

- **Catch errors**
- **Handle exceptions**



Assignment

- 1 On your Linux machine, create a file **emp.txt** with 5 employee names.
- 2 Change permission of **emp.txt** to **READ** only.

Note: Refer to the **Linux** tutorials on <http://spoken-tutorial.org> for change permission option.



Assignment (cont.)

- 3 Write a Perl program to open **emp.txt** file in **WRITE** mode and add few employee names to it.
- 4 Using **eval**, print appropriate error message if open/write operation fails.



About the Spoken Tutorial Project

- Watch the video available at http://spoken-tutorial.org/What_is_a_Spoken_Tutorial
- It summarises the Spoken Tutorial project
- If you do not have good bandwidth, you can download and watch it



Spoken Tutorial Workshops

The Spoken Tutorial Project Team

- Conducts workshops using spoken tutorials
- Gives certificates on passing online tests
- For more details, please write to contact@spoken-tutorial.org



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- More information on this Mission is available at

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

