Assignment COMP284 Scripting Languages Help Handouts

https://pow.goder.com

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Invocation Arguments **Options**

Here documents

Print

Filehandles

I/O Connections

- Perl programs interact with their environment via I/O connections
- A filehandle is the name in a Perl program for such an I/O connection, Scientific Project Exam Help Beware. Despite the terminology, no files might be involved
 - There are six pre-defined filehandles

STDI h	Standard Annual for user in put typically the keyboard				
STDOUT	tandard (Lutput, for user output, typically the terminal				
STDERR	Standard Error, for error output,				
A	typically defaults to the terminal				
DATA	Thut won the a stored left of DEWAY Cat the left of a				
	Perl program				
ARGV	Perl program Iterates over command-line filenames in @ARGV				
	Perl program				
ARGV	Perl program Iterates over command-line filenames in @ARGV				

Input/Output Filehandles

I/O Connections

Except for the six predefined I/O connections, all other I/O connections

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- should be closed once no longer needed close_filehandle,,
- can be her powcoder.com < filehandle>
- can be used to write to print A chald Wie Chat powcoder printf filehandle list
- can be selected as default output select filehandle

Input/Output Filehandles

I/O Connections

Example:

```
open INPUT, "<", "oldtext.txt" or die "Cannot open file";

open Sutbut "Tot ect Exam Help

s!(\d+) degrees Fahrenheit!

sprintf("%d",(($1-32)*5/9)+0.5)." degrees Celsius"!e;

print OUTPUT;
} oldtext.txt:
```

oldtext. Axt: dd WeChat powcoder

```
newtext.txt:
```

41 degrees Celcius is quite warm

Input/Output Open

Opening a filehandle

```
open filehandle, expr
open filehandle, mode, expr
```

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• *expr* specifies a file or command

mode it one of the following					
	Mode	Operation / POV	Create	ler c	OIII
	<	read file			
	>	write file	yes	yes	1
	>> <i>F</i>	ao ont file C	hæt 1	DOWC	coder
	+<	read/write file			
	+>	read/write file	yes	yes	
	+>>	read/append file	yes		
	-	write to command	yes		
	-!	read from command	yes		

Closing a filehandle

close

Input/Output

close filehandle

Assignment description filehandle

- Returns true if those operations succeed
- · Closes nttps://portwareidergennmitted

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Reading

<filehandle>

- In a scalar context, returns a string consisting of all characters from SSAGMINITED TO THE EXAMPLE TO THE LEGISLE AND THE POST OF THE POST
 - In a list context, returns a list of strings representing the whole content of filthandle separated into string using \$\frac{1}{2} \text{as a separator} (Default Value of \$\frac{1}{2}\text{context} \text{ (nowline VI)}

```
1 open INPUT, "<", "oldtext.txt" or die "Cannot open file";
2 $first line = <INPUT>;
3 while Action live = INPUT  
4 close INPUT;
5
6 open LS, "-|", "ls ofiles = <LS>;
8 close LS;
9 foreach $file (@files) { ... }
```

Input/Output Select

Selecting a filehandle as default output

select select filehandle

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- → write or print without a filehandle default to filehandle
- References to variables related to output will refer to filehandle Returns the duriently selected filehandle COM

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Printing

```
print filehandle list
print filehandle
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```

Print

- Print a string or a list of strings to filehandle
- If fill handle is om/tred prints to the last selected filehandle
 If list is omitted, prints \$_
- The current value of \$, (if any) is printed between each list item
- (Default under)

 The current value of Critical Party of Control of been printed (Default: undef)

Printing: Formatting

```
sprintf(format, list)
```

Returns a string formatted by the usual printf conventions of the C

Set grant but deogte deligitations Help

sprintf "(%10.3f)" 1234.5678

format a floating-point number with minimum width 10 and precision 3 and put the sin parties. Coder.com

(1234.568)

See http://declawperColoratetpowycooffor further details

Printing: Formatting

```
printf filehandle format, list

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print filehandle sprintf (format, list)

except that $\ (the output record separator) is not appended

https://powcoder.com
```

Print

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Printing: Formatting

Format strings can be stored in variables and can be constructed on-the-fly:

```
Printf $format, @list;
```

Print

Output:

The itenteps://powcoder.com
wilma
dino
pebbles

(The code above uses the quote word function qw() coder

to generate a list of words.

See http://perlmeme.org/howtos/perlfunc/qw_function.html for details)

Here documents

 A here document is a way of specifying multi-line strings in a scripting or programming language

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here document identifier

- identified declares the terminating string that will indicate where the here document ends
- identifier might optionally be surrounded by double-quotes, single-quotes or backing Wechat powcoder

 An unquoted identifier works like a double-quoted one
- The here document starts on the following line
- The terminating string *identifier* must appear by itself (unquoted and with no surrounding whitespace) after the last line of the here document

Input/Output Here documents

Here documents: Double-quotes

```
$title = "My_HTML_document"
print <<"END";</pre>
Content-type: text/html
       SSIGNMENT Projected at Mary The Louble-quotes in "END"
                                                                                                                                                                                                       tween the opening "END" and
<HEADER > <TITLE > $title </TITLE > </HEADER >
                                                                                                                                                                                                        the closing END should be
< BODY >
         <H1>$t | tlq 
Lots of the point power of the point of the po
</BODY>
</HTML>
END
Content - type: Act of WeChat powcoder
<HTML>
<HEADER><TITLE>My HTML document</TITLE></HEADER>
<BODY>
          <H1>My HTML document </H1>
          Lots of HTML markup here
</BODY>
</HTML>
```

Input/Output Here documents

Here documents: Single-quotes

\$title = "My_HTML_document"

```
**Content of the third Project Exam Help Content of the t
```

```
Content-type: text/html

<!DOCTYPE html>
<HTML><HEADER><TITLE>$title</TITLE></HEADER>
<BODY></BODY></HTML>
END
```

Input/Output Here documents

Here documents: Backticks

```
$command = "ls";
print <<'END';</pre>
Assignment Project Exam Help
The backticks in 'END' tell Perl to run the here document as a shell script
(with the here document treated like a double-quoted string)
handouthttps://powcoder.com
handouts.log
handouts.pdf
handouts.tex
     Add WeChat powcoder
```

Here documents: Variables

Here documents can be assigned to variables and manipulated using string operations

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```
<html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><
body = <<"BODY";
<BODY>
                      <H1>$tAtlek(d1>WeChat powcoder
</BODY>
 </HTML>
BODY
$html = $header.$body;
print $html;
```

<!DOCTYPE html>

Invocation Arguments

 Another way to provide input to a Perl program are invocation arguments (command-line arguments)

Assignment Project Exam Help The invocation arguments given to a Perl program are stored in the

The invocation arguments given to a Perl program are stored in the special array @ARGV

```
perl_hagtan1s://powcoder.com
print "Number_of_arguments:_",$#ARGV+1,"\n";
for ($index=0; $index <= $#ARGV; $index++) {
    print "Argument_u$index:_u$ARGV[$index],"\n";
}
Add WeChat powcoder
./perl_program1 ada 'bob' 2
```

Output:

```
Number of arguments: 3
Argument 0: ada
Argument 1: bob
Argument 2: 2
```

Options

 There are various Perl modules that make it easier to process command-line options

ssignment Project Exam Help One such module is Getopt::Long:

- http://perldoc.perl.org/Getopt/Long.html
- The module provides the GetOptions function
- GetOptions parses the command line arguments that are present in **QARGV** according to an option specification
- Arguments that do not fit to the option specification remain in @ARGV
 GetOptions returns true if @ARGV can be processed successfully

Options: Example

perl_program2:
use Getopt::Long;

```
essignment Project Exam Help
 mv $debug = 0;
$\text{result} = \text{GetOptions} ( \text{"debug"} = \text{$\text{$debug}$, # flag} \\ \text{$\text{$\text{file}$}; # string} \end{arrice}
                                         "Debug:_{\square}$debug;_{\square}Scale:_{\square}$scale;_{\square}File:_{\square}$file\setminusn";
 print
 print "Namber of Deriver of the print "Arguments has the state of the print "Arguments has the p
   ./perl_program2 --scale=5 --file='image.png' arg1 arg2
 Debug: 0; Scale: 5; File: image.png
 Number of arguments: 2
 Arguments: arg1, arg2
```

Revision

Read

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R. L. Schwartz by power of their com

O'Reilly, 2011.

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- http://perldoc.perl.org/perlop.html#I%2f0-Operators
- http://perldoc.perl.org/perlop.html#Quote-Like-Operators
- http://perldoc.perl.org/Getopt/Long.html