

# Lab Report 1

## Perl Environment

Submitted By:	Hassan R. Al-Saffar
Student ID:	10190069
Section:	L04
Instructor:	instructor name (e.g. Prof. Dalby)
Submission Date:	2017 September 18th

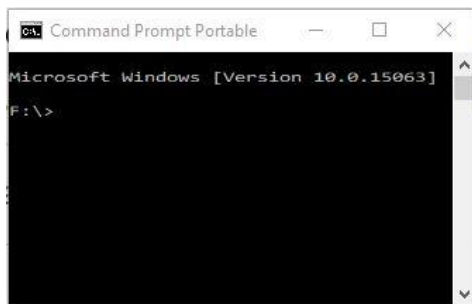
## INTRODUCTION

Explore the Perl environment.

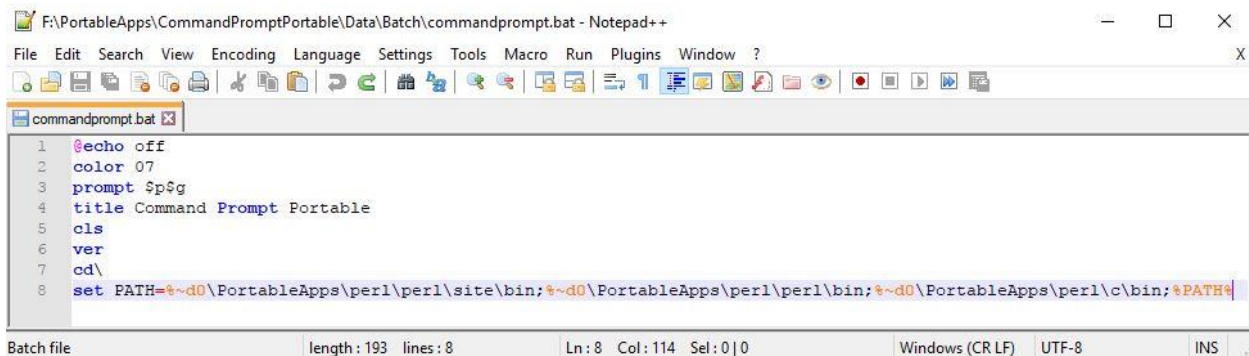
## ACTIVITIES

In this Lab we discovered how to start up and run perl. Furthermore, we learned how to set Paths for file retrieval, how to check installation, finding and running basic modules. As well as practicing the print command in notepad, and a basic introduction to variables.

1. Activate the Portable Applications.



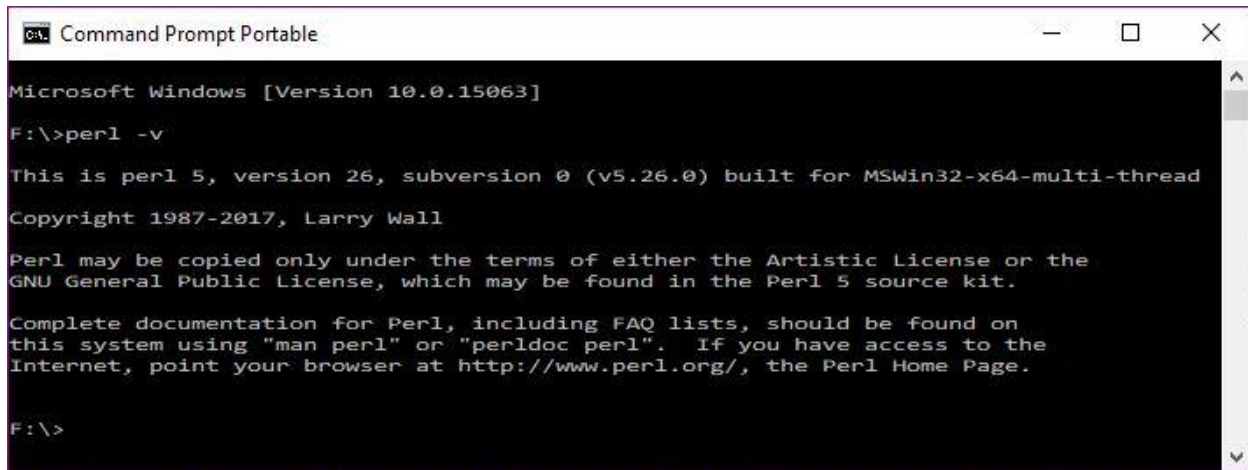
*Command Prompt file*



*Commandprompt.bat file path input*

**Note:** Since the I chose to place the command prompt file into the portable apps directory. I had to modify the original set path to account for this change. By placing the PortableApps directory into the path command a was successfully able to properly calibrate to path finding.

## 2. Check for Perl installation.



```

Command Prompt Portable

Microsoft Windows [Version 10.0.15063]

F:\>perl -v

This is perl 5, version 26, subversion 0 (v5.26.0) built for MSWin32-x64-multi-thread
Copyright 1987-2017, Larry Wall

Perl may be copied only under the terms of either the Artistic License or the
GNU General Public License, which may be found in the Perl 5 source kit.

Complete documentation for Perl, including FAQ lists, should be found on
this system using "man perl" or "perldoc perl".  If you have access to the
Internet, point your browser at http://www.perl.org/, the Perl Home Page.

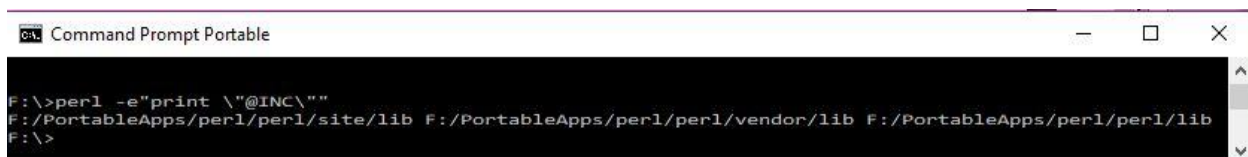
F:\>
  
```

*Perl -v version command output*

**Q: What version of Perl are we running?**

*A: Perl 5, version 26, subversion 0 (v5.26.0)*

## 3. Perl modules.



```

Command Prompt Portable

F:\>perl -e"print \@INC\"
F:/PortableApps/perl/perl/site/lib F:/PortableApps/perl/perl/vendor/lib F:/PortableApps/perl/perl/lib
F:\>
  
```

*Perl -e "print \@INC" command output*

**Q: In the line: perl -e "print \@INC" what are the \ characters for?**

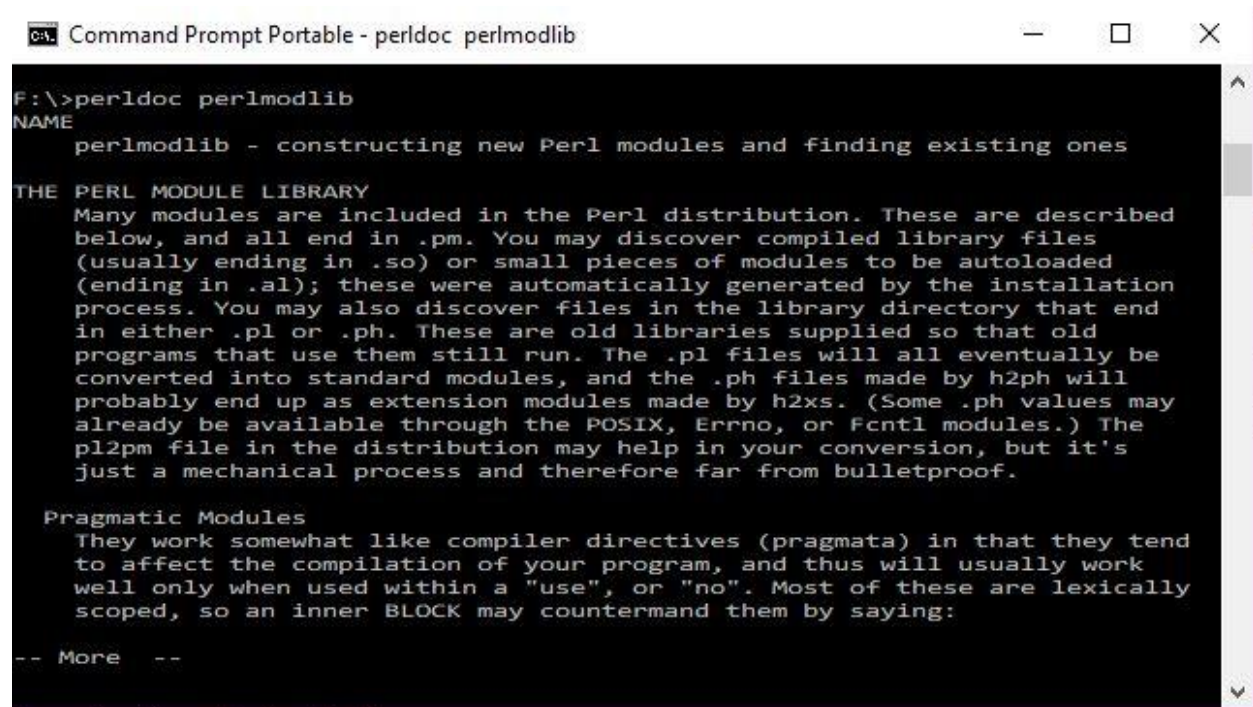
*A: "\" indicates the start of an escape sequence. In this context [\" ] is a double quote escape sequence.*

## 4. Sources of help.

**Q: What does it say Perl is optimized for?**

*A: Perl is a general purpose programming language originally developed for text manipulation and is now used for a wide range of tasks including system administration, web development, network programming, GUI development, and more.*

## 5. CPAN.



```

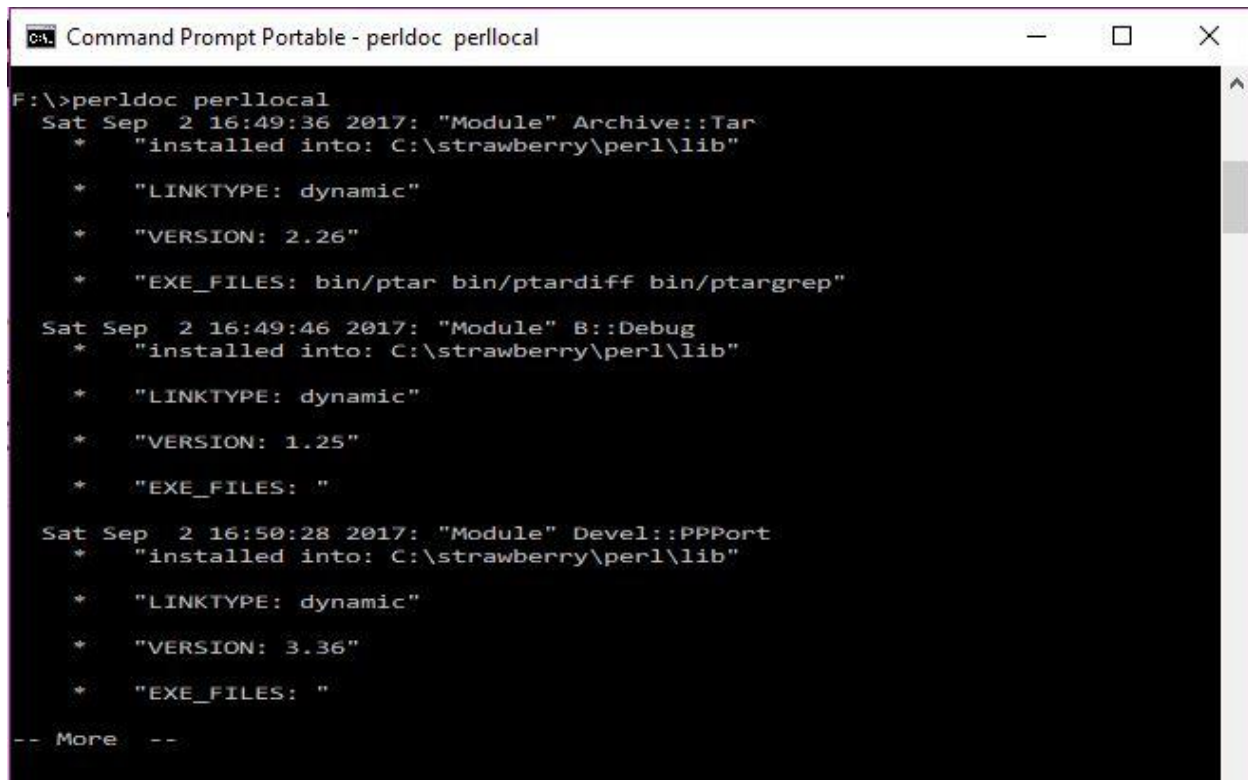
C:\>perldoc perlmodlib
NAME
    perlmodlib - constructing new Perl modules and finding existing ones

THE PERL MODULE LIBRARY
    Many modules are included in the Perl distribution. These are described
    below, and all end in .pm. You may discover compiled library files
    (usually ending in .so) or small pieces of modules to be autoloading
    (ending in .al); these were automatically generated by the installation
    process. You may also discover files in the library directory that end
    in either .pl or .ph. These are old libraries supplied so that old
    programs that use them still run. The .pl files will all eventually be
    converted into standard modules, and the .ph files made by h2ph will
    probably end up as extension modules made by h2xs. (Some .ph values may
    already be available through the POSIX, Errno, or Fcntl modules.) The
    pl2pm file in the distribution may help in your conversion, but it's
    just a mechanical process and therefore far from bulletproof.

    Pragmatic Modules
    They work somewhat like compiler directives (pragmata) in that they tend
    to affect the compilation of your program, and thus will usually work
    well only when used within a "use", or "no". Most of these are lexically
    scoped, so an inner BLOCK may countermand them by saying:

-- More --
  
```

*Perl Module Library*



```

C:\>perldoc perllocal
Sat Sep  2 16:49:36 2017: "Module" Archive::Tar
* "installed into: C:\strawberry\perl\lib"
* "LINKTYPE: dynamic"
* "VERSION: 2.26"
* "EXE_FILES: bin/ptar bin/ptardiff bin/ptargrep"
Sat Sep  2 16:49:46 2017: "Module" B::Debug
* "installed into: C:\strawberry\perl\lib"
* "LINKTYPE: dynamic"
* "VERSION: 1.25"
* "EXE_FILES: "
Sat Sep  2 16:50:28 2017: "Module" Devel::PPPort
* "installed into: C:\strawberry\perl\lib"
* "LINKTYPE: dynamic"
* "VERSION: 3.36"
* "EXE_FILES: "
-- More --
  
```

*List of Installed perl modules*

**Q: What version of the optional package LWP do we have installed?**

*A: Version 6.02*

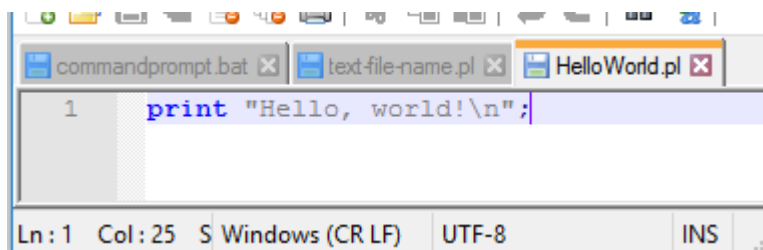
**Q: What authorization schemes are supported by LWP?**

*A: Supports the basic and digest authorization schemes.*

**Q: What does LWP stand for?**

*A: "Library for WWW in perl"*

**6. Printing.**



```

1  print "Hello, world!\n";
  
```

*HelloWorld.pl file input*

```

C:\Windows\System32\cmd.exe

D:\Documents>dir
Volume in drive D is KINGSTON
Volume Serial Number is 4E1E-3D16

Directory of D:\Documents

09/11/2017  06:09 PM    <DIR>          .
09/11/2017  06:09 PM    <DIR>          ..
09/11/2017  06:09 PM    <DIR>          Music
09/11/2017  06:09 PM    <DIR>          Pictures
09/11/2017  06:09 PM    <DIR>          Videos
09/15/2017  11:55 AM                98 text-file-name.pl
09/16/2017  12:33 PM                24 HelloWorld.pl
               2 File(s)                122 bytes
               5 Dir(s)  6,877,200,384 bytes free
  
```

*HelloWorld.pl directory*

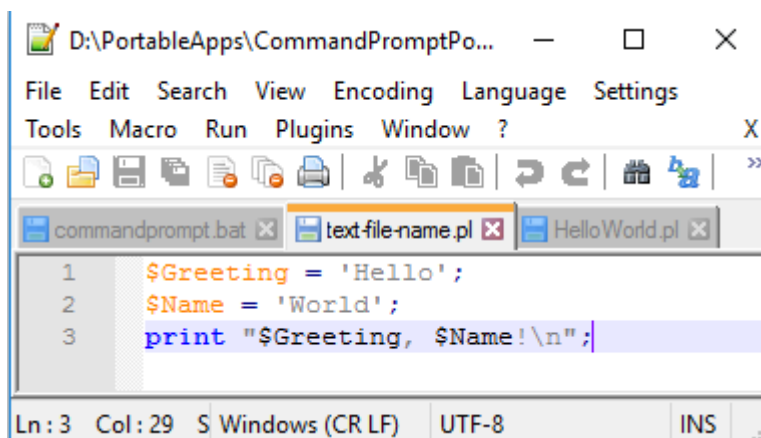
```

Command Prompt Portable

D:\Documents>perl HelloWorld.pl
Hello, world!
  
```

*Hello World run .pl file output*

## 7. Printing Variables.



```

D:\PortableApps\CommandPromptPo...

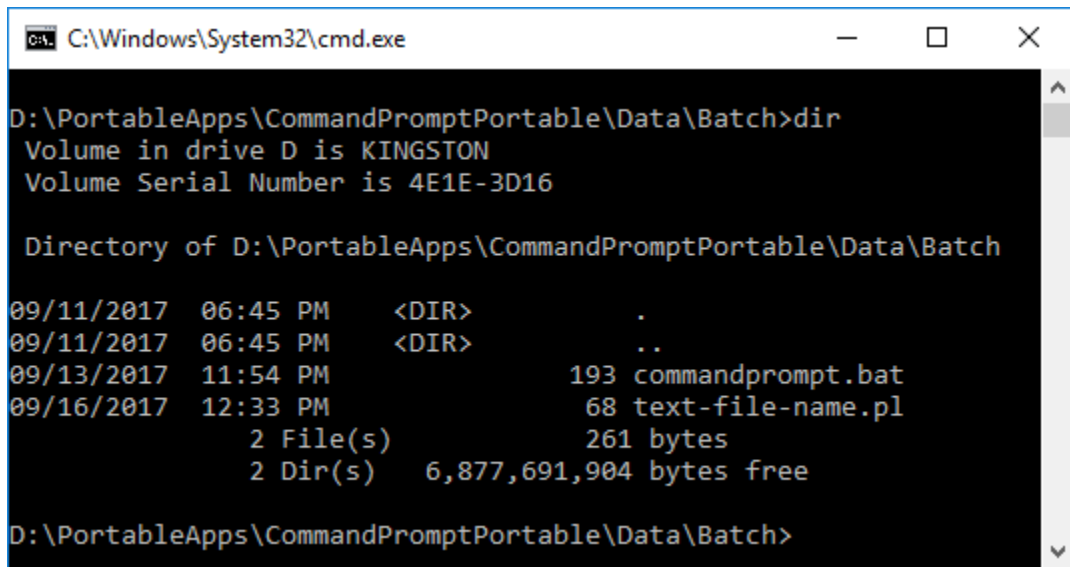
File Edit Search View Encoding Language Settings
Tools Macro Run Plugins Window ?

commandprompt.bat x text-file-name.pl x HelloWorld.pl x

1  $Greeting = 'Hello';
2  $Name = 'World';
3  print "$Greeting, $Name!\n";

Ln: 3 Col: 29 S Windows (CR LF) UTF-8 INS
  
```

*Introducing Variables into notepad++ input*



```
C:\Windows\System32\cmd.exe

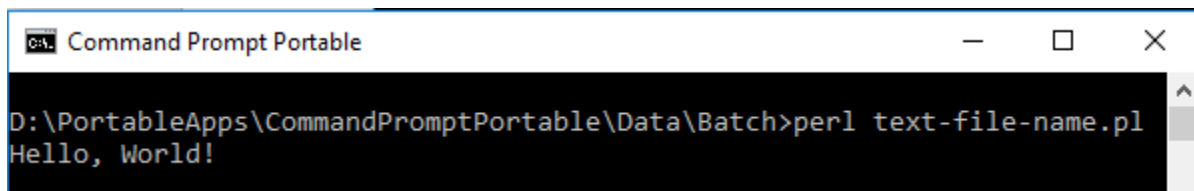
D:\PortableApps\CommandPromptPortable\Data\Batch>dir
Volume in drive D is KINGSTON
Volume Serial Number is 4E1E-3D16

Directory of D:\PortableApps\CommandPromptPortable\Data\Batch

09/11/2017  06:45 PM    <DIR>          .
09/11/2017  06:45 PM    <DIR>          ..
09/13/2017  11:54 PM                193 commandprompt.bat
09/16/2017  12:33 PM                68 text-file-name.pl
               2 File(s)                261 bytes
               2 Dir(s)  6,877,691,904 bytes free

D:\PortableApps\CommandPromptPortable\Data\Batch>
```

*text-file-name.pl* directory



```
Command Prompt Portable

D:\PortableApps\CommandPromptPortable\Data\Batch>perl text-file-name.pl
Hello, World!
```

*text-file-name.pl* run file output

## REFERENCES

Comprehensive Perl Archive Network. (n.d.). Retrieved September 16, 2017, from <https://www.cpan.org/>

Allen, J. (n.d.). Retrieved September 16, 2017, from <http://perldoc.perl.org/index.html>