

COP4342 Exam 2 Study Topics

- 1. Perl Introduction**
 - 1.1. Advantages**
 - 1.2. Intepretation**
 - 1.3. Similarity to C and Shell Scripts**
- 2. Scalars, Literals, Operators, Scalar Variables**
- 3. Strings**
 - 3.1. String Opers, Single Quoted Strings, Double Quoted Strings**
 - 3.2. String Concatentation Operator, String Repetition Operator**
 - 3.3. Implicit Conversions between Strings and Numbers**
 - 3.4. Interpolation of Variables in Strings**
- 4. Simple I/O**
 - 4.1. Chomp, String Relational Operators, Length**
- 5. Control Structures**
 - 5.1. If-Elsif-Else, While, Until, For**
- 6. Lists**
 - 6.1. General Form, qw Shortcut, Range Operator**
- 7. Arrays**
 - 7.1. Declaring Arrays, Accessing Array Elements, Assigning List Literal Values**
 - 7.2. Accessing Entire Arrays, Resizing, Last Element, Negative Indices**
 - 7.3. Push and Pop, Shift and Unshift**
 - 7.4. Accessing Array or List Elements Using Foreach**
- 8. Perl's Default Variable**
- 9. I/O**
 - 9.1. Unformatted**
 - 9.2. Formatted**
 - 9.3. Standard Input and Output**
 - 9.4. <> Operator**
- 10. @ARGV Array**
- 11. Loop Control Operators: Last, Next, Redo**
- 12. Array Operators: Reverse and Sort**
- 13. Hashes**
 - 13.1. Hash Declarations**
 - 13.2. Keys and Values**

- 13.3. Each Function**
- 13.4. Exists and Delete**
- 14. Patterns**
 - 14.1. Regular Expressions**
 - 14.1.1. Character Classes**
 - 14.1.2. Anchors**
 - 14.1.3. General Quantifiers**
 - 14.1.4. Modifiers**
 - 14.2. Back References and Memory Variables**
 - 14.3. Binding Operators**
 - 14.4. Automatic Match Variables**
 - 14.5. Pattern Delimiters**
 - 14.6. Option Modifiers: i, s, g**
- 15. Substitutions**
 - 15.1. Global**
 - 15.2. Case Shifting**
- 16. Translations**
- 17. Split and Join**
- 18. File I/O**
 - 18.1. File Handles**
 - 18.2. Open and Close**
 - 18.3. Checking Status of a File**
- 19. Subroutines**
 - 19.1. Invoking, Arguments, Return Value, Scope Rule**
- 20. Sort Subroutines**
- 21. Grep and Map**
- 22. Operations for Manipulating Files and Directories**
- 23. Invoking Processes**
- 24. More Control Structures**
 - 24.1. Unless and Expression Modifiers**
- 25. More String Functions**
 - 25.1. Index, Substr, and Sprintf**
- 26. Smart Matching**
- 27. Slices of Arrays and Hashes**