

COS 301 Programming Languages
Fall 2009
Project Assignment #4 Due Tuesday Nov 24

Control Flow Constructs, I/O and Exception Handling

Write an 8-to-10 page paper that discusses control flow constructs and semantics, input/output semantics and facilities, and exception or error handling semantics.

Control flow should include conditionals, loops and gotos. The next paper will address function call and return so you do not need to address these issues in this paper.

Remember that the goal is to summarize and compare, not to provide reference manuals. Continue developing the annotated bibliography of your references. As discussed in class, your bibliography may include references not cited in the this particular paper.

Programming Assignment #4

Write a program to evaluate Reverse Polish or postfix expressions. The program may accept input from a file or interactively. Evaluate and display the result for the following expressions:

```
2 3 +
4 6 -
4 3 2 * +
8 9 + 1 *
4 5 7 2 + - *
3 4 - 2 * 7 /
5 7 + 6 2 - *
4 2 3 5 1 * - + -
4 2 + 3 5 1 - * +
2 2 7 * + 2 3 5 * + /
1.4 3.5 - 1 * 1 2 3 * + 3.14159 / -
0.101 42 7 * - 11.1 0.4 / +
6.1 2.003 3.5 + - 0.3 8.1 1.2 / + *
```