Vantage 140 APSC 160

Introduction and Fundamentals A

Week 2

Lesson Plan:
Introduction to basic C program with print statements and command line input
Identification and classification of errors: compilation, formatting and logic.

Intended Learning Outcomes:
- ❖ Develop understanding of good coding practices
- ❖ Develop understanding of compilation versus logic errors
- ❖ Develop understanding of how to read api instructions

Required Materials:
1) Week 2 Handout
2) Week 2 solution

Lesson Procedure		
	Resource(s)	**Time**
Task 0		<5 mins
Introductions you and them.		
Main Task 1 – Discussion of error types	Week 2 Handout	5-10 mins
As a class, discuss 3 types of errors with examples of each. This should be a **quick** review as it was covered in lecture.		
Main Task 2 – Critique Program	Week 2 Handout	15 mins
Split student into groups of 3. Each student should get the exercise handout-1. Have the groups identify the problems together but annotate their own sheet.		
Main Task 3 – Class solution	Week 2 Handout	10 mins
On the overhead identify errors + type of error with participation from students.		
Main Task 4 – Class solution	Week 2 Handout	10-15 mins
Help students with process for decomposing large paragraph of instructions for use of format specifiers.		
Main Task 5 – Discussion	Week 2 Solution	If time permits
Hand out solution file to students. Likely there will not be time for this but if there is a group discussion on what makes this code more readable than the handout version. Talking points on next page…		

Discussion Talking points…

- Alignment
- Good names for variables
- Spacing
- Intermediate results – easier to read + eliminate redundant computation