Vantage 140 APSC 160

Functions

Week 6

Lesson Plan:
Problem solving – solution design using functions.

Intended Learning Outcomes:
❖ Develop understanding of how to decompose a solution into functions.

Required Materials:
1) Week 6 Handout

Lesson Procedure		
	Resource(s)	**Time**
Task 1 – Work through the design of a function	Sample problem	10 mins
Together on the board or overhead go through the design of the function below. - Prototype - Documentation - Stub - Example call - Code function body		
Main Task 2 – Work through exercise	Week 6 Handout	50 mins
Splits students into groups. Give each group one of the problems to work on from the handouts. They instructions are within the handout. If students finish early, give them another problem.		
Extra Task 3 – Work through remaining exercises	Week 6 Handouts	0 mins
Give all students the additional problems so that every person has the 2 problems before they leave.		

Sample problem:

Design a function that takes 2 decimal numbers and returns true if the first is bigger than the second, and false otherwise.