CSC 10A

Accelerated Introduction to Programming Logic

Homework #3

50 Points

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Creating Functions

The purpose of this assignment is to get you writing the body of functions when given a prototype and specifications. Complete the problems below for credit.

Problems

Write pseudo-code to solve the problems below:

Problem #1 (10 points): Write pseudocode that will create the following function:

Prototype: int find_big (int n1, int n2, int n3)

Specification: The function should find the largest value among the three parameters (n1, n2, and n3) and return the value contained in the largest one. This value should be returned.

Answer:

```
int find_big(int1,int2,int3){
int max=n1;
if(n2>max)
max=n2;
if(n3>max)
max=n3;
return max;
}
```

Problem #2 (10 points): Write pseudocode that will create the following function:

Prototype : boolean is_equal (int n1, int n2)
Specification : The function should determine is n1 and n2 are equal. If so, return the boolean associated with true; otherwise, return false.
Answer:
boolean is_equal(int n1, int n2){
if(n1==n2)
return true;
}
return false;
Problem #3 (15 points): Write pseudocode that will create the following function:
Prototype : float fahrenheit_to_celsius (float f)
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Specification : The function should take the Fahrenheit temperature and convert it to Celsius. The Celsius temperature should be returned. For reference: To convert from Fahrenheit to Celsius, you must first subtract 32 degrees from the Fahrenheit. You then take the difference and the Celsius temperature is 5/9 of that.
Answer:
return(f-32)*5/9
Problem #4 (15 points): Write pseudocode that will create the following function:
Prototype : float get_grand_total (float subtotal, float tax_rate)

