Computer Science 2 - Weekly Quiz 12/2/2016

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**Each question below is worth 10 points. Write your answer clearly in the space provided or on the back of paper.**

1. What is a function? What are functions used for?

A function is a series of commands that can be executed by your program to calculate a value or perform an action. Functions are used for complex mathematical calculations, data analysis, data processing, and much more.

1. Name and describe **the most important** benefit of using functions in computer programming.

The most important benefit is that Code can be reused multiple times by placing a simple function cell.

1. Name and describe the three main parts of a function.

Name- Identifies each function.

Parameters- Values needed by the function to produce the expected result.

Commands - Actions that will be executed when the function runs.

1. What is a function parameter? What are parameters used for?

Function parameters are the values needed by the function to produce the expected result. They are used for

1. What is the purpose of the function call?

The function call is needed to execute a function. The function call starts/activates the function.

1. What is the purpose of the function return statement?

The purpose of the function return statement is that functions can send results back to the function call statement if these results are needed by the program.

1. **(20 points)** Analyze the code sample below. Label its parts. Explain what it is going to do **and provide its output**.

Yellow: Name

Blue: Parameters

Green: Commands

function CalcAg (CurrYr, BrthYr)

{

var Age = CurrYr – BrthYr;

document.write(“It is now: “ +CurrYr);

document.write(“Year of birth“ + BrthYr);

document.write(“Your age is: “ + Age);

First it is going assign var Age with the value of CurrYr - BrthYr. Then it is going to print “It is now (Value of CurrYr)”. Under that, “Year of birth + BrthYr”. Under that, “Your age is (value of age)”. Lastly, if UserAge is less than 21, then it will print “Sorry, you must be 21 to enter”.

return Age;

}

var UserAge=CalcAg(2015, 1964);

if (UserAge < 21) {

document.write(“Sorry, you must be 21 to enter”);

}

1. **(20 points)** Analyze the code sample below. Label its parts. Explain what it is going to do **and provide its output.**

Yellow: Name

Blue: Parameters

Green: Commands

function AcctBal(OrigBal, Deps, Withds)

{

var NewBal = OrigBal + Deps;

var FinBal=NewBal-Withds;

document.write(“Starting Balance: “+OrigBal);

document.write(“Deposits: “+Deps);

First it is going to assign the variable NewBal to the sum of OrigBal and Deps. Then it is going to assign the variable FinBal to the difference of NewBal and Withds. Then it is going to print, “Starting Balance: (Value of OrigBal)”. Under that, “Deposits: (Value of Deps)”. Under that, “Withdrawals: (Value of Withds)”. Under that, “Final Balance: (Value of FinBal)”. Lastly, if the value of CurrBal is less than 0.01, then it will print “Sorry, account out of funds”.

document.write(“Withdrawals “+Withds);

document.write(“Final Balance: “ +FinBal);

return FinBal;

}

var CurrBal=AcctBal(4900, 2600, 7500);

if (CurrBal < 0.01) {

document.write(“Sorry, account out of funds”);

}