Homework #JSVI

1. Explanations of terms as explained to a 12-year-old –

* A **callback function** is a function that is used as an input to another function, by using it as an argument to the other function. The function that uses the callback function as an argument is called a higher order function. This is a way to break the code, or computer instructions, up into bite size chunks, to make it more flexible. It is like breaking up a recipe for making pizza into smaller, more manageable recipes. The pizza recipe would be the higher order recipe, and would require the use of two other recipes for making the sauce, and making the pizza crust. In computer code, the recipe for pizza could be written using callback functions for the sauce recipe, the pizza dough recipe and the baking instructions, like this –

function pizzaRecipe(toppings, sauceRecipe, doughRecipe, cookingInstructions) {

const cheese = mozzarella;

const sauce = sauceRecipe();

const dough = doughRecipe();

pizza = dough + sauce + cheese + toppings;

return cookingInstructions(pizza);

}

Then you can use the recipe to make different types of pizza, like so –

const mushroomAlfredoPizza = pizzaRecipe(mushrooms, alfredoSauce, thinCrust, ovenBake);

or a yummy fire baked pizza, instead –

const firebakedPepperoniPizza = pizzaRecipe(pepperoni, italianRedSauce, sourdough, fireBake);

This pizzaRecipe is a higher order recipe and the recipes for making the sauce, making the dough, and baking the pizza are callback functions. This makes the pizza recipe modular and gives it flexibility, so that it can be used to many different types of pizza.