1. Our web app has 1 fancy requirement: buttons with rounded corners at top-left and bottom-right. Provide a code sample with HTML5/CSS.

Included in WebInterviewQuestionsPaypros.html

2. Later on, a new requirement is to support gradient background on the buttons. How do you do it? Please provide a code sample with HTML5/CSS.

Included in WebInterviewQuestionsPaypros.html

3. Part 1:

function foo(a) {

var tmp = 5;

function bar(b) {alert(a + b + (++tmp));}

return bar;

}

foo(3)(10); // A

foo(3)(10); // B

Part 2:

function foo(a) {

var tmp = 5;

function bar(b) {alert(a + b + (++tmp));}

return bar;

}

var ref = foo(3);

ref(10); // C

ref(10); // D

a) What are the values that A and B alert? Are they same? Why?

The values of A and B are 19. They are the same because foo(3)(10) is copying by value.

b) What are the values that C and D alert? Are they same? Why?

The value of C is 19 and the value of D is 20. They are not the same because var ref is a static variable and ref(10) is copying by reference; meaning that the return value of the method foo is being saved to the ref variable.

c) What is the difference between part 1 and part2?

Part 1 is copying by value and part 2 is copying by reference. Or in other words, part2 is saving the return value of the method foo and increments by 1 each time it is called.

4. What’s Ajax? When do you need to use it? Please give us an example you used Ajax to solve a problem.

5. (Optional) Implement a 2-level menu using JavaScript and CSS.

**Algorithm**

6. Given an unsorted integer list, find the closest number to a given target, where closest means smaller than target with smallest difference. What the best running time and why

7. Given a list of chars and corresponding probability, we want a random method so that the probability of producing a specific char is exactly same as in the probability list.