#### **CHAPTER 4**

#### **EXERCISE SOLUTIONS**

Q: What is output if the following JavaScript program is executed by a typical web browser? Explain. var i=5; function duh() { var i; window.i=6; } duh(); window.alert(i);

# Output: 6 Explanation:

i is created as a global variable with the value of 5. Inside duh() function: i is declared as a local variable Windows.i updates the global variable i to 6 duh() function is called windows.alert() shows the value of i as 6.

Q: What is output if the following JavaScript program is executed by a typical web browser? Explain. var o1 = new Object(); o1.j = 9; var o2 = o1; function test(o1) { o1.j=10; return; } test(o1); window.alert(o2.j);

# Output: 10 Explanation:

o1 is an object with a property j=9 o2 references o1 test(o1) is a function it updates the value of j to 10 as o2 references o1 so it the value of j for o2.j will also be 10

Q: What is the output of the following JavaScript program? Explain why this output is produced. function rusty(a) { this.x = a; return; } var o1 = new Object(); var o2 = new Object(); o1.rusty = rusty; o2.rusty = o1.rusty; o1.rusty(1); o2.rusty(2); window.alert(o1.x + "," + o2.x);

# Output: 1,2 Explanation:

rusty(a) it sets the value of this.x to a o1.rusty -> adds the function to o1 o2.rusty -> also have the same function o1.rusty(1) -> this.x=1 o1.rusty(2) -> this.x=1 the alert prints 1, 2