JavaScript Assignment 9

1. Carefully observe this example.

a) Is the InnerFunction() a closure?

b) What is output of this program

function OuterFunction()

{ var outerVariable = 100;

function InnerFunction() {

alert(outerVariable);

}

return InnerFunction;

}

var innerFunc = OuterFunction();

innerFunc();

Ans.

1. **Yes, the InnerFunction() is a closure.**
2. **Display 100 in the dialogue box that pops up on the screen because of the alert function.**

2. What is the difference between a closure and a scope?

Ans.

**Closure** – whenever we create a function within another function it is called as closure.

**Scope** – When you declare a variable inside a function, the scope of the variable is limited to that function and cannot be accessed outside the function other than closure function

3. What is a lexical scope and how is it related to closure?

Ans.

Lexical scope is the definition area of an expression. In other words, an item's lexical scope is the place in which the item got created and a closure function can access all the variables in its lexical scope.

4. Output of following closure ?

for (var i = 0; i < 3; i++) {

setTimeout(function log() {

console.log(i); // What is logged?

}, 1000);

}

Ans.

**3**

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