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ACAD**GILD**

FRONT END DEVELOPMENT (WITH ANGULARJS)

Session 2 – Advanced JavaScript(contd.)

1. **Inner Functions**

2. **Closures**

3. **Closure - Example**

- Nesting functions within functions.

```
function Ftimes() {
    var FtimesObj = new Object()
        function Ftimes3(x) {
            return x * 3
            }
        function Ftimes4(x) {
            return x * 4
            }
    FtimesObj.Ftimes3 = Ftimes3
    FtimesObj.Ftimes4 = Ftimes4
    return FtimesObj
    }

Var Multi = new Ftimes();
alert(Multi.Ftimes3(5)) // alerts 15
alert(Multi.Ftimes4(5)) //alerts 20
```

- A closure is an inner function that has access to the outer (enclosing) function's variables—scope chain.

- A closure takes place when a function creates an environment that binds local variables to it in such a way that they are kept alive after the function has returned.

- A closure is a special kind of object that combines two things: a function and any local variables that were in-scope at the time that the closure was created.
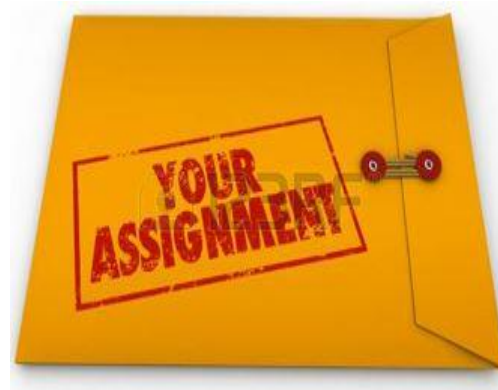
Closure - Example

```
function getNameFunction() {

    var name = "Acadgild";

    return function getName() { return name; }
    }


    var displayName = function() {
    var getName = getNameFunction();
    alert( "Hello " + getName() + "!" );
     return getName;
    }(); //holds the getName() function

alert(displayName); //call it again later...

setTimeout( 'alert( "Your name is " + displayName() )', 10 );
```

Assignment

Contact Info:

- Website : http://www.acadgild.com

- LinkedIn : https://www.linkedin.com/company/acadgild

- Facebook : https://www.facebook.com/acadgild

- Support: support@acadgild.com