18. Explain, in detail, what happens when this script is run:

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| --- | --- |
| <!DOCTYPE html>  <html>  <head>  <meta charset=”utf-8”>  <title>Unit 7 Ch5</title>  </head>  <body>  <script>  var shout = function () {  var message = “HEY YOU”;  alert(message);  };  shout();  alert(message);  </script>  </body>  </html> | The function value is assigned to the variable shout. The function shout is called and the local variable message is declared within the function. The variable message is assigned the value “Hey You”. An alert is given from within the function that delivers the value of the variable message to the screen via a pop-up. The pop-up says, “HEY YOU”. The browser now attempts to run the second alert that is found outside of the function but the variable that it tries to find is not defined because it doesn’t exist outside of the function. |

19. Explain, in detail, what happens when you run this script:

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| --- | --- |
| <!DOCTYPE html>  <html>  <head>  <meta charset="utf-8">  <title>Unit 7 Ch5</title>  </head>  <body>  <script>  alert("Hello");  var alert = 2;  alert("World");  </script>  </body>  </html> | The first alert runs. A popup window appears with the message Hello. A variable called alert is declared with the value 2. The declaration now obstructs the global variable alert giving it a value of two. When alert is used to give a pop-up dialog box the browser no longer interprets alert as a dialog box but as a variable with a value. For that reason when alert(“World”) tries to run it compares the syntax to a variable that would run that way which is a function. However alert is not a function so the process fails with the type error, “Alert is not a function”. |

27. Write a constructor for movie objects. A movie has a title, an MPAA rating, a list of directors, a list of producers, a studio, and a release date.

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| <!DOCTYPE html>  <html>  <head>  <meta charset="utf-8">  <title>Unit 7 Ch5</title>  </head>  <body>  <script>  //A movie has a title, an MPAA rating, a list of directors, a list of producers, a studio, and a release date.  var Movie = function (m) {  this.movie = m;  };  Movie.prototype.title = function () {  return this.movie;  };  Movie.prototype.rating = function () {  var mpaa = prompt("What is the MPAA rating? ");  return mpaa;  };  Movie.prototype.directors = function () {  var list = prompt("What directors?");  return list;  };  Movie.prototype.producers = function () {  var pro = prompt("What producers?");  return pro;  };  Movie.prototype.studio = function () {  var stu = prompt("What studio?");  return stu;  };  Movie.prototype.release = function () {  var rel = prompt("When was it released?");  return rel;  };  var mInfo = [];  var m1 = new Movie(prompt("Title: "));  mInfo.push(m1.title(), m1.rating(), m1.directors(), m1.producers(), m1.studio(), m1.release());  document.writeln(mInfo);  </script>  </body>  </html> |

30. JavaScript comes with a built-in object called Date, which is a constructor. Research this function and answer the following: 

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| --- | --- |
| (a) What does the expression new Date() produce?   It will produce an object with the current date such as: Sun Jul 17 2016 19:08:49 GMT-0700 (Pacific Daylight Time) | (b) What does the expression new Date( 2009,0,20) produce?  It produces the date for that construct which is the 20th day of the first month of the year 2009 which fell on a Tuesday. The time was not specified so it is set to 0.  Tue Jan 20 2009 00:00:00 GMT-0800 (Pacific Standard Time) |