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| Lecture 1 September 27,2015  <!DOCTYPE html> <**html** lang=**"en"**> <**head**>  <**meta** charset=**"UTF-8"**>  <**title**>Placement of Script</**title**>  <**script**>  </**script**> </**head**> <**body**> <**script**> </**script**> <**input** type=**"text"**> <**script**>  </**script**> <**button** >Submit</**button**> <**script**> </**script**> </**body**> </**html**> | <!DOCTYPE html> <**html** lang=**"en"**> <**head**>  <**meta** charset=**"UTF-8"**>  <**title**>Lecture 1 - Alert</**title**>  <**script**>  */\*\* blank \*\*/* alert();  */\*\* strings \*\*/* alert(**"SSUET"**);  alert(**"123"**);  alert(**"Hello World!"**); */\*\* where spaces do not matter \*\*/* alert ( **"Hello World!"** ); */\*\* spaces matter inside text strings \*\*/* alert(**"Hello World!"**);  */\*\* numbers \*\*/* alert(123);  alert(1.23);  </**script**> </**head**><**body**></**body**>/**html**> |

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| Lecture 2 October 4, 2015  <!DOCTYPE html> <**html** lang=**"en"**> <**head**> <**meta** charset=**"UTF-8"**>  <**title**>Lecture 2 - Variables for Strings </**title**>  <**script**>  */\*\* variable declaration \*\*/* **var *country***;  alert(***country***); *//undefined  /\*\* variable initialization \*\*/* ***country*** = **"Pakistan"**;  alert(***country***);  **var *studentName*** = **'ABC XYZ'**;  **var *password*** = **"pakistan"**;  **var *rollNumber*** = **"A123"**;  **var *registrationNumber*** = **"A123"**;  **var *email*** = **"abc@xyz.com"**;  **var *subject*** = **"Chemistry"**;  **var *contactNumber***;  **var *address***;  **var *recipientEmail***; | **var *gender***;  **var *unreadEmails***;  **var *username*** = **"ABC"**;  alert(***username***);  **var *DateOfBirth***;  **var *email*** = **"abc@xyz.com"**;  alert(***email***);  ***email*** = **"pakistan@gmail.com"**;  alert(***email***);  *//var 2; //illegal  //var 2things; //illegal  //var .things; //illegal  //var %things; //illegal  //var @things; //illegal  //var \_things; //legal  //var $things; //legal  //var things2; //legal  //var twoThings; //legal  //var TwoThings; //legal  //var Two2Things; //legal* </**script**> </**head**><**body**></**body**></**html**> |
| Lecture 3 October 11, 2015  <!DOCTYPE html> <**html** lang=**"en"**> <**head**>  <**meta** charset=**"UTF-8"**>  <**title**>Lecture 3 - Variables for Numbers, Math Expressions</**title**>  <**script**>  **var *num*** = 2;  **var *anotherNum*** = 3.2;  alert(***num***);  alert(***anotherNum***);  alert(***num*** + 3);  */\*\* add two numbers \*\*/* **var *newNumber*** = 4 + 3;  alert(***newNumber***);  */\*\* add a number and a variable \*\*/* **var *newNumber1*** = ***num*** + 2;  alert(***newNumber1***);  */\*\* add two variables \*\*/* **var *newNumber2*** = ***num*** + ***anotherNum***;  alert(***newNumber2***);  */\*\* add some value to a variable \*\*/* ***num*** = ***num*** + 4;  alert(***num***);  **var *age*** = 19;  **var *newAge*** = ***age*** + 3;  alert(***newAge***);  alert(**typeof *age***);  *//var 2; //Not allowed* **var *two***;  */\*\* Math Expressions \*\*/* **var *num1*** = 3;  **var *num2*** = 10;  **var *addition*** = ***num1*** + ***num2***;  alert(***addition***);  **var *subtraction*** = ***num2*** - ***num1***;  alert(***subtraction***);  **var *multiplication*** = ***num1*** \* ***num2***;  alert(***multiplication***);  **var *division*** = ***num2*** / ***num1***;  alert(***division***);  **var *remainder*** = 10 % 3;  alert(***remainder***); | */\*\*Increment/ Decrement Operators\*\*/* **var *count*** = 5;  **var *updatedCount*** = ***count*** + 1;  alert(***updatedCount***);  alert(***count***);  **var *age*** = 12; */\*\* alternate ways to increment a value \*\*/* ***age*** = ***age*** + 1;  ***age*** += 1;  ***age***++; *//increment operator  /\*\* alternate ways to decrement a value \*\*/* ***age*** = ***age*** - 1;  ***age*** -= 1;  ***age***--; *//decrement operator /\*\* increment 3 numbers in a value \*\*/* ***age*** = ***age*** + 3;  ***age*** += 3;  **var *count*** = 19;  ***count***--;  alert(***count***);  ***count***--;  alert(***count***); */\*\* Post Increment & Pre Increment Operators \*\*/* **var *num*** = 2;  ***num***++; *//post increment operator* ++***num***; *//pre increment operator /\*\* post increment in an expression \*\*/* **var *age*** = 20;  **var *newAge*** = ***age***++;  alert(***newAge***);  alert(***age***);  */\*\* pre increment in an expression \*\*/* **var *age*** = 20;  **var *newAge*** = ++***age***;  alert(***newAge***);  alert(***age***);   */\*\* Eliminating Ambiguity \*\*/  // \* / precedence same  // + - precedence same /\*\* Same precedence - Left to Right \*\*/* **var *result*** = 3 + 2 - 3;  alert(***result***); *//2* |

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| */\*\* Different precedence - BODMAS or Javascript precedence rules \*\*/* **var *result*** = 3 + 2 \* 3;  alert(***result***); *//9*  */\*\* to eliminate ambiguity or confusion, use brackets \*\*/* **var *result*** = 3 + (2 \* 3);  alert(***result***); *//9* **var *result*** = (3 + 2) \* 3;  alert(***result***); *//15* **var *answer*** = 4 / 2 \* 2;  alert(***answer***); *//4* **var *answer*** = 4 / (2 \* 2);  alert(***answer***); *//1* **var *answer*** = (4 / 2) \* 2;  alert(***answer***); *//4* **var *answer*** = (2 \* 4) \* (4 + 2);  alert(***answer***); */\*\* Concatenation happens when you add a number and a string \*\*/* **var *age*** = **"19"**;  ***age*** = ***age*** + 1;  alert(***age***); *//191* alert(**typeof *age***); *//string* **var *birthYear*** = 1990;  **var *typeOfData*** = **typeof *birthYear***;  **document**.write(**"My birth year is "** + ***birthYear***);  **document**.write(**"<br>"**);  **document**.write(**"Data Type of my declared variable is "** + ***typeOfData***);   </**script**> </**head**> <**body**> </**body**> </**html**> | Lecture 4 October 18, 2015  <!DOCTYPE html> <**html** lang=**"en"**> <**head**>  <**meta** charset=**"UTF-8"**>  <**title**>Lecture 4 - | CONCATENATING TEXT STRINGS | PROMPTS | IF STATEMENTS | COMPARISON OPERATORS | </**title**>  <**script**>  **var *str*** = **""**;  alert(**typeof *str***); *//string  /\*\* Concatenating Text Strings \*\*/* **var *str1*** = **"I am "**;  **var *str2*** = **"Pakistani"**;  **var *combinedString*** = ***str1*** + ***str2***;  **document**.write(***combinedString***); *//I am Pakistani* **var *username*** = **"Ali"**;  alert(**"Good Morning, "** + **"!"**);  alert(**"Good Morning, "**+ ***username*** + **"!"**); *//Good Morning, Ali!* **userName** = **"Sami"**;  alert(**"Thanks, "** + **userName** + **"!"**); *//Thanks, Sami!  /\*\* Prompts \*\*/* **var *username*** = prompt(**"What is your name?"**);  alert(**"Hello, "** + ***username***);  **var *course*** = prompt(**'Which course are you enrolled in?'**);  alert(***course***);   */\*\* an alternate way \*\*/* **var *course*** = *window*.prompt(**'Which course are you enrolled in?'**);  alert(***course***); |

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| */\*\* solution - parseInt / parseFloat \*\*/* **var *num1*** = prompt(**"Please enter first number?"**);  ***num1*** = parseInt(***num1***); **var *num2*** = prompt(**"Please enter second number?"**);  ***num2*** = parseInt(***num2***);  **var *sum*** = ***num1*** + ***num2***; **document**.write(**"Sum of two numbers is :"** + ***sum***); **document**.write(**"<br>"**);  **var *username*** = **"Ali"**;  **var *greeting*** = **"Good Morning, "**;  **var *banger*** = **"!"**; **var *completeMessage*** = ***greeting*** + ***username*** + ***banger***; **document**.write(***completeMessage***); **document**.write(**"<br>"**);   **var *result*** = **"2 plus 2 equals "** + 2 + 2; *//22* **document**.write(***result***);  **document**.write(**"<br>"**); **var *result*** = **"2 plus 2 equals "** + (2 + 2); *//4* **document**.write(***result***);  **document**.write(**"<br>"**);  */\*\* boolean - a data type \*\*/ /\*\* possible values - true/false \*\*/* **var *verified*** = **true**;  *//var verified = false;* **document**.write(***verified***);  **document**.write(**"<br>"**); **document**.write(**typeof *verified***); **document**.write(**"<br>"**); | */\*\* default input \*\*/* **var *course*** = *window*.prompt(**'Which course are you enrolled in?'**, **'MCC - Module A'**);  alert(***course***);  **var *email*** = prompt(**"Please enter your email address?"**, **"abc@xyz.com"**);  **document**.write(***email*** + **"<br>"**);  */\*\* prompt returns string type data \*\*/* **var *userResponse*** = prompt(**"Please enter first number?"**);  alert(**typeof *userResponse***);  **document**.write(**"userResponse is "** + ***userResponse***); **document**.write(**"<br>"**); **document**.write(**"Type of userResponse is "** + **typeof *userResponse***); *//string* **document**.write(**"<br>"**);  */\*\* parseInt / parseFloat methods \*\*/  //Integer = 4  //Float = 2.44* **var *str*** = **'52.5kgs'**;  **var *weight*** = parseInt(***str***); *//52* alert(**typeof *weight***); *//number* **var *weight*** = parseFloat(***str***); *//52.5* alert(**typeof *weight***); *//number  /\*\* problem - prompt returns string type data \*\*/* **var *num1*** = prompt(**"Please enter first number?"**); **var *num2*** = prompt(**"Please enter second number?"**); **var *sum*** = ***num1*** + ***num2***; *//problem* **document**.write(**"Sum of two numbers is :"** + ***sum***); *//wrong sum* **document**.write(**"<br>"**); |

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| */\*\* Conditional Statements - if statement \*\*/  /\*  if(condition)  {  //do this  //and this  //...  }  \*/  // == --> compares value  // === --> compares value and data type* **var *score*** = 100;  *//var score = 89;* **if** (***score*** === 100)  {  alert(**"Perfect Score."**);  alert(**"Congratulations"**);  }  alert(**"result computed"**); *// == // values on both sides are equal // != // values on both sides are not equal // === // values and types on both sides are equal // !== // values and/or types on both sides are equal* alert(18 == **"18"**); *//true* alert(18 != **"18"**); *//false* alert(18 === **"18"**); *//false* alert(18 === 18); *//true* alert(18 !== **"18"**); *//true* **var *score*** = 89;  **if** (***score*** !== 100) { alert(**"Not a Perfect Score."**);  alert(**"Try again"**);}  alert(**"result computed"**); | **var *score*** = 0;  **var *userIQ***; **var *x*** = prompt(**"Where does the Pope live?"**);  **var *correctAnswer*** = **"Vatican"**;  **if** (***x*** == ***correctAnswer***)  {  ***score***++;  alert(**"Correct Answer"**);  ***userIQ*** = **"genius"**;  }  **if**(***score*** > 0){  alert(**"Congrats"** + **" "** + ***userIQ*** );  }  */\*\* Comparison Operators \*\*/  /\* > is greater than //exclusive < is less than //exclusive*  *>= is greater than or equal to //inclusive <= is less than or equal to =//inclusive == values on both sides are equal!*  *= values on both sides are not equal === values and types on both sides are equal!== values and/or types on both sides are not equal  \*/* **var *age*** = 14;  **if**(***age*** <= 18)  {  alert(**"You are under 18"**);  }  **var *age*** = 14;  **if**(***age*** < 19)  {  alert(**"You are under 18"**);  } |

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| **var *age*** = 2; *//if(age > 2 && age < 10) // Exclusive for both //if(age >= 2 && age < 10) //Inclusive for 2, Exclusive for 10* **if**(***age*** >= 2 && ***age*** <= 10) *//Inclusive for both, range is 2...10* {  alert(**"Welcome"**);  }  */\*\* when no curly braces are used, first immediate statement is considered as it's in body of if statement \*\*/* **var *sum*** = 40; **if**(***sum*** > 50) alert(**"You've got a good score"**); alert(**"done computing result"**);  */\*  here,  alert("You've got a good score");  is same as  { alert("You've got a good score");  }   \*/* </**script**> </**head**> <**body**> </**body**> </**html**> | Lecture 5 November 1, 2015  <!DOCTYPE html> <**html** lang=**"en"**> <**head**> <**meta** charset=**"UTF-8"**>  <**title**>Lecture 5 - | IF...ELSE & ELSE IF STATEMENTS | TESTING SET OF CONDITIONS | </**title**>  <**script**> */\*\* IF...Else statements \*\*/* **var *score*** = 30;  **if**(***score*** >= 70)  {  alert(**"Congratulations"**);  }  **else** { alert(**"Sorry you have failed"**); alert(**"Please give the test again"**);  }  */\*\* Else If statements \*\*/* **var *percentage*** = 82;  **if**(***percentage*** >= 80)  {  alert(**"A-one grade"**);  }  **else if** (***percentage*** >= 70)  {  alert(**"A grade"**);  }  **else if**(***percentage*** >= 60){  alert(**"B grade"**);  }  **else**{  alert(**"Sorry. You have failed"**);  }  */\*\* Logical operators \*\*/ // AND - && // OR - || // NOT - ! // true && true = true // false && true = false // false && false = false // true && false = false //true || true = true //false || true = true //false || false = false //true || false = true* |
| */\*\* Testing multiple conditions in one statement \*\*/* **var *test*** = **"JS"**;  **var *score*** = 65; **if**(***test*** === **"CSS"** && ***score*** > 60)  {  alert(**"You have passed CSS test"**);  } **if**(***test*** === **"JS"** && ***score*** > 70)  { alert(**"You have passed JS test"**);  }  **var *age*** = 23;  **var *residence*** = **"UK"**;  **var *IELTSScore*** = 8.2; **if**(***age*** > 20 || ***residence*** == **"US"**){ alert(**"You can proceed"**);  } **if**(***age*** > 20 || (***residence*** == **"US"** && ***IELTSScore*** > 8.0)){ alert(**"You can proceed"**);  } **var *time*** = parseInt(prompt(**"Enter time in 24 hour format E.g. 1300 for 1pm"**, **"1300"**));  **if** (***time*** >= 0000 && ***time*** < 1200) { ***message*** = **"Good morning!"**;  } **else if** (***time*** >= 1200 && ***time*** < 1700) {  ***message*** = **"Good afternoon!"**;  } **else if** (***time*** >= 1700 && ***time*** < 2100) {  ***message*** = **"Good evening!"**;  } **else if** (***time*** >= 2100 && ***time*** <= 2359) {  ***message*** = **"Good night!"**;  }  alert(***message***); | */\*\* Nested If Statements \*\*/* **var *age*** = 24;  **if**(***age*** > 20)  { alert(**"You can proceed to further assessment"**);  **if**(***age*** + 2 >= 25)  { alert(**"You'll be able to give driving test in near future"**);  }  }  **else**{  alert(**"We are Sorry"**);  } */\*\* when no curly braces are used, first immediate statement is considered as it's in body of statement \*\*/* **var *sum*** = 40; **if**(***sum*** > 50) alert(**"You've got a good score"**); **else** alert(**"Try again!"**); alert(**"done computing result"**);  */\*  here, alert("You've got a good score"); is same as  { alert("You've got a good score");  } and alert("Try again!");is same as  {  alert("Try again!");  }  \*/* </**script**>  </**head**>  <**body**>  </**body**>  </**html**> |

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| Lecture6-November 8, 2015  <!DOCTYPE html> <**html** lang=**"en"**> <**head**>  <**meta** charset=**"UTF-8"**>  <**title**>Lecture 5 - Arrays</**title**>  <**script**>  **var *student1*** = **"Ali"**;  **var *student2*** = **"Sami"**;  **var *student3*** = **"Aini"**;  **var *student4*** = **"Kainat"**;  **var *student5*** = **"Jamil"**; **var *students*** = [**"Ali"**, **"Sami"**, **"Aini"**, **"Kainat"**, **"Jamil"**]; alert(***students***); *// Ali,Sami,Aini,Kainat,Jamil* alert(***students***[0]); *// Ali* alert(***students***[1]); *// Sami* alert(***students***[2]); *// Aini* alert(***students***[3]); *// Kainat* alert(***students***[4]); *// Jamil  /\*\* array definition \*\*/* **var *arr*** = [];*// JS literal notation to define an array* **var *arr*** = **new** Array(); *// JS object notation to define an array /\*\* length of an array or total number of elements \*\*/* alert(***students***.**length**); *//5* **var *arr*** = [];  alert(***arr***.**length**); *//0 /\*\* array of strings \*\*/* **var *students*** = [**"Ali"**, **"Sami"**, **"Kainat"**, **"Jamil"**]; */\*\* array of numbers \*\*/* **var *scores*** = [50,70,40,80];  */\*\* array of booleans \*\*/* **var *flags*** = [**true**, **false**]; | */\*\* mixed array \*\*/* **var *mixedArray*** = [**"Ali"**, 80, **true**]; **var *userProfile*** = [**"alikhan"**, 19, **true**]; */\*\* updating array elements \*\*/* **var *fruits*** =[**"Mango"**,**"Peach"**, **"Banana"**];  alert(***fruits***[0]);  ***fruits***[0] = **"Orange"**;  alert(***fruits***[0]);  */\*\* Array methods \*\*/  /\* push = Add an element to end of an array pop= Removes last element of an array unshift = Add an element to start of an array shift= Removes first element of an array splice = Add/Remove array elements at/from any position slice = copy an array indexOf = find index or position of a specific element  \*/ /\*\* push \*\*/* **var *fruits*** =[**"Mango"**, **"Peach"**,**"Banana"**];  **document**.write(**"<br><h4>push</h4>"**); **document**.write(**"<br>Fruits: "** + ***fruits***); ***fruits***.push(**"Apple"**); **document**.write(**"<br>Fruits: "** + ***fruits***); ***fruits***.push(**"Water Melon"**, **"Grapes"**, **"Melon"**); **document**.write(**"<br>Fruits: "** + ***fruits***); ***fruits***.push(**"Grapes"**); **document**.write(**"<br>Fruits: "** + ***fruits***); **document**.write(**"<br>Total fruits "** + ***fruits***.**length**); |

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| */\*\* an alternate way to push in an array \*\*/* **var *fruits*** = [**"Apple"**, **"Orange"**]; **document**.write(**"<br>Fruits: "** + ***fruits***); ***fruits***[***fruits***.**length**] = **"Mango"**; ***fruits***[***fruits***.**length**] = **"Banana"**; **document**.write(**"<br>Fruits: "** + ***fruits***);  */\*\* pop \*\*/* **var *fruits*** = [**"Mango"**, **"Peach"**, **"Banana"**, **"Apple"**, **"Grapes"**, **"Melon"**]; **document**.write(**"<br><h4>pop</h4>"**); **document**.write(**"<br>Fruits: "** + ***fruits***); ***fruits***.pop(); **document**.write(**"<br>Fruits: "** + ***fruits***); ***fruits***.pop(); ***fruits***.pop(); **document**.write(**"<br>Fruits: "** + ***fruits***);  */\*\* unshift \*\*/* **var *fruits*** = [**"Mango"**, **"Peach"**, **"Banana"**]; **document**.write(**"<br><h4>unshift</h4>"**); **document**.write(**"<br>Fruits: "** + ***fruits***); ***fruits***.unshift(**"Apple"**); **document**.write(**"<br>Fruits: "** + ***fruits***); ***fruits***.unshift(**"Water Melon"**, **"Grapes"**, **"Melon"**); **document**.write(**"<br>Fruits: "** + ***fruits***); ***fruits***.unshift(**"Grapes"**); **document**.write(**"<br>Fruits: "** + ***fruits***); **document**.write(**"<br>Total fruits "** + ***fruits***.**length**);  */\*\* shift \*\*/* **var *fruits*** = [**"Mango"**, **"Peach"**, **"Banana"**, **"Apple"**, **"Grapes"**, **"Melon"**]; **document**.write(**"<br><h4>shift</h4>"**); **document**.write(**"<br>Fruits: "** + ***fruits***); ***fruits***.shift(); **document**.write(**"<br>Fruits: "** + ***fruits***);  ***fruits***.shift();  ***fruits***.shift(); **document**.write(**"<br>Fruits:"**+ ***fruits***);  **console**.log(***fruits***); | */\*\* splice \*\*/ /\* fruits.splice(index, noOfElementsToRemove, elementsToAdd);  \*/* **var *fruits*** = [**"Mango"**, **"Grapes"**, **"Peach"**, **"Banana"**]; **document**.write(**"<br><h4>splice</h4>"**); **document**.write(**"<br>Fruits:"**+ ***fruits***); ***fruits***.splice(2, 1); **document**.write(**"<br>Remove Fruit(s): "** + ***fruits***); **var *fruits*** = [**"Mango"**, **"Grapes"**, **"Peach"**, **"Banana"**]; ***fruits***.splice(2, 0, **"Apple"**); **document**.write(**"<br>Add Fruit(s): "** + ***fruits***); **var *fruits*** = [**"Mango"**, **"Grapes"**, **"Peach"**, **"Banana"**]; ***fruits***.splice(2, 0, **"Apple"**, **"Orange"**, **"Melon"**); **document**.write(**"<br>Add Multiple Fruits: "** + ***fruits***); **var *fruits*** = [**"Mango"**, **"Grapes"**, **"Peach"**, **"Banana"**]; ***fruits***.splice(2, 1, **"Apple"**); **document**.write(**"<br>Add & Remove Fruit(s): "** + ***fruits***);  */\*\* slice \*\*/ /\*fruits.slice(startIndex, endIndex+1);  \*/* **var *fruits*** = [**"Mango"**, **"Grapes"**, **"Peach"**, **"Banana"**, **"Orange"**];  **document**.write(**"<br><h4>slice</h4>"**);  **document**.write(**"<br>Fruits: "** + ***fruits***);  **var *newFruits*** = ***fruits***.slice(2, 4);  **document**.write(**"<br>Copy Fruit(s): "** + ***newFruits***);  */\*\* indexOf \*\*/* **var *fruits*** = [**"orange"**, **"banana"**, **"apple"**]; alert(***fruits***.indexOf(**"banana"**)); *// 1* alert(***fruits***.indexOf(**"apple"**)); *// 2* alert(***fruits***.indexOf(**"peach"**)); *// -1* |

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| */\*\* multidimensional array \*\*/* **var *multi*** = [ [] , [] , [] ];  alert(***multi***.**length**); *//3* **var *multi*** = [ [1,2] , [3,4] , [5,6] ];  alert(***multi***.**length**); *// 3* alert(***multi***[0]); *// 1,2* alert(***multi***[1]); *// 3,4* alert(***multi***[2]); *// 5,6* alert(***multi***[0].**length**); *// 2* alert(***multi***[0][0]); *// 1* alert(***multi***[0][1]); *// 2* alert(***multi***[1][0]); *// 3* alert(***multi***[1][1]); *// 4* alert(***multi***[2][0]); *// 5* alert(***multi***[2][1]); *// 6* </**script**> </**head**> <**body**>  </**body**> </**html**> | Lecture 7 November 15, 2015  <!DOCTYPE html> <**html** lang=**"en"**> <**head**>  <**meta** charset=**"UTF-8"**>  <**title**>Lecture 7 - For Loops</**title**>  <**script**>  */\*\* without for loop \*\*/* **document**.write(**"Hello World<br>"**); **document**.write(**"Hello World<br>"**); **document**.write(**"Hello World<br>"**); **document**.write(**"Hello World<br>"**); **document**.write(**"Hello World<br>"**);  */\*\* without for loop \*\*/  // var num = 0;  //document.write(num + "<br>");  // num += 1;  //document.write(num + "<br>");  // num += 1;  //document.write(num + "<br>");  // num += 1;  //document.write(num + "<br>");  // num += 1;  //document.write(num + "<br>");  // num += 1;  //document.write(num + "<br>");  // num += 1;  //document.write(num + "<br>");  // num += 1;  //document.write(num + "<br>");  // num += 1;  //document.write(num + "<br>");  // num += 1;  //document.write(num + "<br>");  // num += 1;  //document.write(num + "<br>");  // num += 1;*  */\*\* For Loops \*\*/  /\* for (initializer ; condition ; incrementer/decrementer)  {  }  \*/* |

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| */\*\* structure \*\*/ // for ( ; ; ) // { // }*  */\*\* for loop \*\*/* **for** (**var *count*** = 0; ***count*** <= 5 ; ***count***++ )  { **document**.write(**"Hello World<br>"**); }  */\*\* for loop \*\*/* **for** (**var *num*** = 0; ***num*** <= 10 ; ***num***++ )  {  **document**.write(***num*** + **"<br>"**);  } **var *cleanestCities*** = [**"Cheyenne"**, **"Santa Fe"**, **"Tucson"**, **"Great Falls"**, **"Honolulu"**]; **document**.write(**"<h4>Cleanest Cities List</h4>"**); **for** (**var *i*** = 0; ***i*** < ***cleanestCities***.**length** ; ***i***++)  { **document**.write(***cleanestCities***[***i***] + **" at index "** + ***i***); **document**.write(**"<br>"**); }  */\*\* for loop - optional statements \*\*/* **var *num*** = 0;  **for** ( ; ***num*** <= 10 ; ***num***++ )  { **document**.write(***num*** + **"<br>"**);  } */\*\* for loop - optional statements \*\*/* **for** (**var *num*** = 0; ; ***num***++ )  {  **if**(***num*** <= 10)  { **document**.write(***num*** + **"<br>"**);  }  **else** {  **break**; } } | */\*\* for loop - optional statements \*\*/* **for** (**var *num*** = 0; ***num*** <= 10 ; ) { **document**.write(***num*** + **"<br>"**);  ***num***++;  }  */\*\* Example - without for loop \*\*/* **var *cleanestCities*** = [**"Cheyenne"**, **"Santa Fe"**, **"Tucson"**, **"Great Falls"**, **"Honolulu"**]; **var *cityToCheck*** = prompt(**"Enter city name"**); **if** (***cityToCheck*** === ***cleanestCities***[0]) { alert(**"It's one of the cleanest cities"**);  } **else if** (***cityToCheck*** === ***cleanestCities***[1]) { alert(**"It's one of the cleanest cities"**);  } **else if** (***cityToCheck*** === ***cleanestCities***[2]) { alert(**"It's one of the cleanest cities"**);  } **else if** (***cityToCheck*** === ***cleanestCities***[3]) { alert(**"It's one of the cleanest cities"**);  } **else if** (***cityToCheck*** === ***cleanestCities***[3]) { alert(**"It's one of the cleanest cities"**);  } |

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| */\*\* Example - with for loop \*\*/* **var *cleanestCities*** = [**"Cheyenne"**, **"Santa Fe"**, **"Tucson"**, **"Great Falls"**, **"Honolulu"**]; **var *cityToCheck*** = prompt(**"Enter city name"**); **for** (**var *i*** = 0; ***i*** < ***cleanestCities***.**length** ; ***i***++)  { **if**(***cityToCheck*** === ***cleanestCities***[***i***]){  alert(**"It's one of the cleanest cities"**);  }  }  *// length of cleanestCities = 5  // index range = 0 to 4  /\*\* break statement \*\*/* **for**(**var *num*** = 0 ; ***num*** <= 10 ; ***num***++)  { **document**.write(***num*** + **"<br>"**);  **if**(***num*** === 5)  {  **break**;  }  } **var *cleanestCities*** = [**"Cheyenne"**, **"Santa Fe"**, **"Tucson"**, **"Great Falls"**, **"Honolulu"**]; **var *cityToCheck*** = prompt(**"Enter city name"**); **for** (**var *i*** = 0; ***i*** < ***cleanestCities***.**length** ; ***i***++)  { **if**(***cityToCheck*** === ***cleanestCities***[***i***]){ alert(**"It's one of the cleanest cities"**);  **break**; }} | */\*\* flags \*\*/  /\*\* problem - without flags \*\*/* **var *cityToCheck*** = prompt(**"Enter city name"**); **var *cleanestCities*** = [**"Cheyenne"**, **"Santa Fe"**, **"Tucson"**, **"Great Falls"**, **"Honolulu"**]; **for** (**var *i*** = 0; ***i*** < ***cleanestCities***.**length** ; ***i***++)  { **if**(***cityToCheck*** === ***cleanestCities***[***i***])  { alert(**"It's one of the cleanest cities"**);  }  **else** {  alert (**"city not matched"**);  }  } */\*\* solution - with flags \*\*/* **var *cityToCheck*** = prompt(**"Enter city name"**); **var *cleanestCities*** = [**"Cheyenne"**, **"Santa Fe"**, **"Tucson"**, **"Great Falls"**, **"Honolulu"**]; **var *matchFound*** = **false**;  *//flag* **for** (**var *i*** =0; ***i*** <***cleanestCities***.**length** ; ***i***++)  { **if**(***cityToCheck*** ===***cleanestCities***[***i***])  {  ***matchFound*** = **true**;  }  }   **if**( ***matchFound*** === **true**)  {  alert(**"It's one of the cleanest cities"**);  }  **else if**( ***matchFound*** === **false**)  {  alert (**"city not matched"**);  } |

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| */\*\* nested for loops \*\*/* **var *firstNames*** = [**"Ali"**, **"Sami"**, **"Bilal"**]; **var *lastNames*** = [**"Khan"**, **"Baig"**]; **for**(**var *i*** = 0; ***i*** < ***firstNames***.**length**; ***i***++ )  { **for**(**var *j*** = 0; ***j*** < ***lastNames***.**length**; ***j***++ )  { **document**.write(***firstNames***[***i***]+ **" "** + ***lastNames***[***j***]);  **document**.write(**"<br>"**);  }  }  **for**(**var *i*** = 0; ***i*** < 4; ***i***++) *// 4 times* { **for**(**var *t*** = 0; ***t*** <= 2 ; ***t***++) *// 3 times* { alert(**"Hello"**);  }  }  *// 4 \* 3 = 12 times /\*\* when no curly braces are used, first immediate statement is considered as it's in the body of the statement \*\*/* **var *myArray*** = [2,5,2,4]; **for** (**var *i*** = 0 ; ***i*** < ***myArray***.**length**; ***i***++) **console**.log(***myArray***[***i***]); alert(**"done!"**);  */\* here, for (var i = 0 ; i < myArray.length; i++) console.log(myArray[i]); is same as for (var i = 0 ; i < myArray.length; i++) { console.log(myArray[i]); } \*/* </**script**></**head**><**body**></**body**></**html**> | Lecture9 November 29, 2015  <!DOCTYPE html> <**html** lang=**"en"**> <**head**>  <**meta** charset=**"UTF-8"**>  <**title**>Lecture 9 - Date methods</**title**>  <**script**>  */\*\* Get Current Date \*\*/* **var *rightNow*** = **new** Date(); **document**.write(***rightNow*** + **"<br>"**); **document**.write(***rightNow***.getDate() + **"<br>"**); **document**.write(***rightNow***.getMonth() + **"<br>"**); **document**.write(***rightNow***.getHours() + **":"** + ***rightNow***.getMinutes() + **":"** + ***rightNow***.getSeconds() + **"<br>"**); **document**.write(***rightNow***.getHours() + **"hrs , "** + ***rightNow***.getMinutes() + **" minutes<br>"**); **document**.write(***rightNow***.getFullYear() + **"<br>"**); **document**.write(***rightNow***.getSeconds() + **"<br>"**); **document**.write(***rightNow***.getMilliseconds() + **"<br>"**); |

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| */\*\* Get Time - milliseconds from January 1, 1970 \*\*/*  **document**.write(***rightNow***.getTime() + **"<br>"**);  */\*\* Get Current Day \*\*/ //document.write(rightNow.getDay() + "<br>");  //var days = ["Sun", "Mon", "Tue", "Wed", "Thu", "Fri", "Sat"];  //document.write(days[rightNow.getDay()] + "<br>");  /\*\* Set Date \*\*/  //var myBirthday = new Date("June 30, 2015");  //document.write(myBirthday);  //var myBirthday = new Date("June 30, 2015 17:33:40");  //document.write(myBirthday);* **var *myBirthday*** = **new** Date(); **document**.write(***myBirthday*** + **"<br>"**);  ***myBirthday***.setDate(15); **document**.write(***myBirthday*** + **"<br>"**);  ***myBirthday***.setMonth(6); **document**.write(***myBirthday*** + **"<br>"**);  ***myBirthday***.setFullYear(2036); **document**.write(***myBirthday*** + **"<br>"**);   </**script**> </**head**> <**body**> </**body**> </**html**> |  |

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| Lecture9-November 29, 2015  <!DOCTYPE html> <**html** lang=**"en"**> <**head**>  <**meta** charset=**"UTF-8"**>  <**title**>Lecture 9 - Math methods & type conversions </**title**>  <**script**>  *// -3, -2, -1, 0 , 1 , 2 ,3  //.5 or greater === next  //else same*  */\*\* round off, floor & ceil \*\*/* **var *num*** = 0.562;  **document**.write(***num*** + **"<br>"**);  **document**.write(**"Round Off "** + **Math**.round(***num***) + **"<br>"**); *//1* **document**.write(**"Floor "** + **Math**.floor(***num***) + **"<br>"**); *//0* **document**.write(**"Ceil "** + **Math**.ceil(***num***) + **"<br><br>"**); *//1* **var *num*** = -2.25;  **document**.write(***num*** + **"<br>"**);  **document**.write(**"Round Off "** + **Math**.round(***num***) + **"<br>"**); *//-2* **document**.write(**"Floor "** + **Math**.floor(***num***) + **"<br>"**); *//-3* **document**.write(**"Ceil "** + **Math**.ceil(***num***) + **"<br><br>"**); *//-2* | */\*\* random number generation \*\*/* **var *random*** = **Math**.random() \* 6;  ***random*** = **Math**.ceil(***random***);  *//random = Math.floor(random) + 1;* **document**.write(**"random dice value: "** + ***random***);  **document**.write(**"<br><br>"**);  **var *randomNumber*** = **Math**.random()\*2; ***randomNumber*** = **Math**.ceil (***randomNumber***); *//randomNumber = Math.floor(randomNumber) + 1;* **document**.write(***randomNumber***);  **document**.write(**"<br>"**);  **var *coin*** = ***randomNumber*** === 1 ? **"Tails"** : **"Heads"**;  **document**.write(**"random coin value: "** + ***coin***);  **document**.write(**"<br><br>"**);  */\*  if (randomNumber == 1)  {  coin = "Tails";  }  else  {  coin = "Heads";  }  \*/* |

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| */\*\* Converting strings to integers and decimals \*\*/* **var *currentAge*** = prompt(**"What is your current age?"**); *//"20abc"* **var *yearsBeingEligibleToVote*** = ***currentAge*** - 18;  **document**.write(***yearsBeingEligibleToVote***);  **document**.write(**"<br><br>"**);   *// var sum = 4 / "2";  // document.write(sum);  // parseInt("2.4abc"); //2  // parseFloat("2.4abc"); //2.4 // alert(parseFloat("abc12.6")); //NaN* **var *currentAge*** = parseInt(prompt(**"What is your current age?"**)); *//var currentAge =parseFloat(prompt("What is your current age?"));* **var *yearsBeingEligibleToVote*** = ***currentAge*** - 18;  **document**.write(***yearsBeingEligibleToVote***);  **document**.write(**"<br><br>"**); */\*\* Converting strings to numbers \*\*/ // var str = "12abc"; //document.write(typeof str + "<br>"); // str = Number(str); //document.write(typeof str + "<br>"); // document.write(str);*  */\*\* Converting numbers to strings \*\*/ //var num = 1.234; //document.write(typeof num + "<br>"); //num = num.toString(); //document.write(typeof num + <br>");*  */\*\* Controlling the length of decimals \*\*/* **var *totalCost*** = 3000.23465881199; **document**.write(**"<br><br>"**); **document**.write(***totalCost*** + **"<br>"**); **document**.write(***totalCost***.toFixed(2));  </**script**> </**head**><**body**></**body**> </**html**> |  |

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| Lecture10-December 6, 2015  <!DOCTYPE html> <**html** lang=**"en"**> <**head**>  <**meta** charset=**"UTF-8"**>  <**title**>Functions</**title**>  <**script**> *// var current = new Date(); // var hours = current.getHours(); // var minutes = current.getMinutes(); // document.write("Current time: " + (hours + ":" + minutes)); // var country = "Pakistan"; // document.write(country); /\*  function functionname(arg1, arg2, ..., argn) {  function body }  \*/ // tellTime(); // /\* // function declaration // \*/ // function tellTime() // { //var current = new Date(); //var hours = current.getHours(); //var minutes = current.getMinutes(); // document.write("Current time: " + (hours + ":" + minutes)); // } // /\* // function call // \*/ // tellTime(); // //lots of code // alert();* | *// function alert() // { // }  //function with parameters //function increment(num) // { // num++; // document.write("<br>Number is " + num); // } // increment(4); // increment(34); // increment(100); // function add(num1 , num2) //parameters // { // var sum = num1 + num2; // document.write("<br>Sum is " + sum); // } // add(4 , 2); //arguments // add(56, 980); // //function increment(num) //function increment(num, num2) // { // //num++; //document.write("<br>Number is " + num); // } // //increment(); // increment(23); // function increment(num) // { // num++; document.write("<br>Number is " + num); // } // increment(4, 7, 9);* |

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| **function** *greetUser*(username) {  **document**.write(**"<br>Welcome, "** + username); } *//greetUser(); //greetUser("Sami"); //greetUser("Sami", "Khan");  // greetUser("Ali"); // // //var name = "Ali"; // var name = prompt("What is your name?"); // greetUser(name);  // function getGrade(percentage) // { // if(percentage >= 80) // { // alert("A-one grade"); // } // else if(percentage >= 70) // { // alert("A grade"); // } // else if(percentage >= 60) // { // alert("B grade"); // } // return // }  // //var percentage = parseInt(prompt("What is your percentage")); // //getGrade(percentage); // getGrade(82);* | **function** *convertToUpperCase*(str) {  **var** result = str.toUpperCase();  **return** result; } *// var uppercase = convertToUpperCase("ali khan"); // alert(uppercase); document.write(convertToUpperCase("ali khan")); console.log(convertToUpperCase("ali khan")); // function add(num1 , num2) //parameters // { // var sum = num1 + num2; // return sum; // } //document.write("Sum is " + add(4, 6)); // function getGrade(percentage) // { // var grade; // if(percentage >= 80) // { // grade = "A-one grade"; // } // else if(percentage >= 70) // { // grade = "A grade"; // } //else if(percentage >= 60) //{ //grade = "B grade"; // } return grade; } // alert(getGrade(89)); // document.write(getGrade(89)); // console.log(getGrade(89)); // var grade = getGrade(89);* |

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| *//function calcShippingCharges(amount) // { // return amount + 5; // } ////var res = 10 + calcShippingCharges(4); //19 // //if(calcShippingCharges(9) >= 10) // { // alert("Good"); // } //function add (num1 , num2) //5, 1 // { // return num1 + num2; // } // //function increment (num) //5 // { // return add(num, 1); //6 // } //alert(increment(5)); // function sayHello() // { // return; //alert("This will not execute ever"); //document.write("nor this"); // } // //alert(sayHello()); //undefined //function sayHello(num) //local variable // { //var message = "Hello"; //local variable- scope // } // alert(message);//not allowed // alert(num); //not allowed  // var message = "Hi";* | *//global variable // function sayHello(num) // { // alert(message); // } // alert(message); // sayHello(); // var message = "Hi"; // function sayHello(num) // { // var message = "Hello"; // alert(message); //Hello // } // alert(message); //Hi // sayHello();* **function** *sayHello*(num) {  ***message*** = **"Hello"**;  *//alert(message);* } *sayHello*(); alert(***message***); *// alert(message); // message = "Hello"; // alert(message); // alert(window.message) // function add() // {  console.log(arguments); // } // add(); //0 // add(3); //1 // add(5,7); //2* </**script**> </**head**> <**body**> </**body**> </**html**> |

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| Lecture11 December 13, 2015  <!DOCTYPE html> <**html** lang=**"en"**> <**head**>  <**meta** charset=**"UTF-8"**>  <**title**></**title**>  <**script**>   *//It take no input & returns current time in HH:MM format  /\*  function tellTime()  {  var current = new Date();  var hours = current.getHours();  var minutes = current.getMinutes();  document.write("Current time: " + (hours + ":" + minutes));  }  \*/* **var *country*** = **"Pakistan"**; *//country* alert(**"Pakistan"**);  */\*  \*/* </**script**> </**head**> <**body**>  *<!--<script src="DemoJS.js"></script>--> <!--<script>-->  <!--tellTime();--> <!--</script>-->* </**body**> </**html**> | Lecture11 December 13, 2015  <!DOCTYPE html> <**html** lang=**"en"**> <**head**>  <**meta** charset=**"UTF-8"**>  <**title**>Placing scripts</**title**>  <**script**>  alert(**"Hello 1"**);  </**script**>  <**script**>  alert(**"Hello 1.1"**);  </**script**> </**head**> <**body**> <**script**>  alert(**"Hello 2"**); </**script**> <**h1**>Mobile & Cloud Computing</**h1**> <**script**>  alert(**"Hello 3"**); </**script**> <**h3**>Module A - Section A</**h3**> <**script**>  alert(**"Hello 4"**); </**script**> </**body**> </**html**> |

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| Lecture 11 December 13, 2015  <!DOCTYPE html> <**html** lang=**"en"**> <**head**>  <**meta** charset=**"UTF-8"**>  <**title**>switch statements</**title**>  <**script**>  *// var day = 'Sunday'; // if(day === 'Sunday') // { // alert("It's study time"); // } // else if(day === 'Monday') // { // alert('Work week ahead'); // }  // var day = 'Thursday'; // // switch(day) // { // case 'Sunday': // alert("It's study time"); // break; // case 'Monday': // alert("Work week ahead"); // case 'Tuesday': // alert("In middle of the week"); // }* | *//var num = 3; // switch(1+1) // { // case 1: // alert("One"); // break; // case 2: // alert("Two"); // break; // case 3: // alert("Three"); // break; // default: // alert("I am default value"); // }* **var *day*** = **'Wednesday'**;  **switch**(***day***)  {  **case 'Sunday'**:  **case 'sunday'**:  **case 'SUNDAY'**:  alert(**"It's study time"**);  **break**;  **case 'Monday'**:  alert(**"Work week ahead"**);  **case 'Tuesday'**:  **case 'Wednesday'**:  **case 'Thursday'**:  **case 'Friday'**:  alert(**"In middle of the week"**);  }  </**script**> </**head**> <**body**> </**body**> </**html**> |

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| Lecture 11 December 13, 2015  <!DOCTYPE html> <**html** lang=**"en"**> <**head**>  <**meta** charset=**"UTF-8"**>  <**title**></**title**>  <**script**> *// var a = 1; // // while (a < 5) // { // document.write(a); // document.write("<br>"); // a++; // } // alert("Done"); // for(var a = 1 ; a < 5; a++) // { // document.write(a); // } //if(null) //if("") //if(0) //if(undefined) //if(false) //{ // //} // var names = []; //// var input = prompt("Enter a number"); //// alert(input); // while( prompt("Enter a number") ) // { // names.push(); // } // var cont = confirm("Do you want to continue?"); // alert(cont);* | *// for (var i = 0 ; i < 3 ; i++) // { // document.write(i + "<br>"); // if(i == 1) // { // break; // } // } // for (var i = 0 ; i < 4 ; i++) // { // if(i == 1) // { // continue; // } // document.write(i + "<br>"); // // } // var i = 0; // while(i > 5) // { // document.write(i); // document.write("<br>"); // i++; // }* **var *i*** = 0;  **do** {  **document**.write(***i***);  **document**.write(**"<br>"**);  ***i***++;  } **while**(***i*** > 5);  </**script**> </**head**> <**body**>  </**body**> </**html**> |

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| Lecture12 December 20, 2015  <!DOCTYPE html> <**html** lang=**"en"**> <**head**>  <**meta** charset=**"UTF-8"**>  <**title**>Events</**title**>  <**script**>  **function** *greetUser*(msg){  alert(msg);  }  </**script**> </**head**> <**body**> *<!--<a href="#" onClick="alert('Hi!');">Click Me</a>--> <!--<p ONCLICK="alert('Paragraph clicked!');">ABC XYZ ABC XYZ ABC XYZ ABC XYZ ABC XYZ ABC XYZ </p>--> <!--<a href="#" onClick="var message = 'Hello World!';alert(message);">Click Me</a>--> <!--<p>Hello</p>--> <!--<br>--> <!--<br>--> <!--<br>--> <!--<br>--> <!--<br>--> <!--<br>--> <!--<br>--> <!--<br>--> <!--<br>--> <!--<br>-->*  *<!--<a href="Javascript:void(0)" onClick="alert('Hello World!');">Click Me</a>--> <!--<a href="Javascript:void(0)" onClick="var message = 'Hello'; greetUser(message);">Click Me</a>-->* | *<!--<input type="button" value="Submit" onclick="greetUser('Welcome!')">--> <!--<a href="#"> <img src="apple-iphone6s.jpg"></a>--> <!--<img src="apple-iphone6s.jpg" onclick="alert('Hello');">--> <!--<img src="before-apple-iphone.jpg" onMouseover=" src='after-apple-iphone.jpg' "--> <!--onMouseout=" src='before-apple-iphone.jpg' ">--> <!--<h1 onMouseover="alert('Be sure to get your shopping done today.');">World Ends Tomorrow</h1>--> <!--<a href="index.html" onMouseover="this.style.color='green';"--> <!--onMouseout="this.style.color = 'blue'">Home Page</a>--> <!--<p id="loris" onMouseover="expand();">Slow Loris: Mouse over for more info</p>--> <!--<label>Email:</label>--> <!--<input type="text" size="30" onFocus="this.style.backgroundColor = 'lightblue';"--> <!--onblur="this.style.backgroundColor = 'white'">--> <!--<br>--> <!--<label>Password:</label>--> <!--<input type="password" size="30">--> <!--<input type="button" value="Submit">-->* |

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| *<!--<form onsubmit="getFormValues()">-->  <!--Email:-->  <!--<input type="text" id="emailID" >-->  <!--<br>-->  <!--Gender:-->  <!--<select id="gender">-->  <!--<option>Male</option>-->  <!--<option>Female</option>-->  <!--</select>-->  <!--<br>-->  <!--<br>-->  <!--<input type="submit" value="Submit">--> <!--</form>-->*  *<!--<script>-->  <!--function getFormValues(){--> <!--var emailID = document .getElementById('emailID').value;-->  <!--var gender = document .getElementById('gender').value;-->  <!--alert(emailID + " " + gender);-->  <!--}--> <!--</script>--> <!--<form onSubmit="checkAddress('email');">-->  <!--Email:-->  <!--<input type="text" id="email">-->  <!--<input type="submit" value="Submit">--> <!--</form>--> <!--<script>-->  <!--function checkAddress(fieldId) {-->  <!--if (document.getElementById(fieldId).value === "") {-->  <!--alert("Email address required.");-->  <!--}-->  <!--}--> <!--</script>-->* | *<!--<form>-->  <!--ZIP:<br>-->  <!--<input type="text" id="zip" onBlur="fillCity();"><br>-->  <!--City:<br>-->  <!--<input type="text" id="city">--> <!--</form>--> <!--<script>-->  <!--function fillCity()-->  <!--{-->  <!--var zip = document.getElementById('zip').value;-->  <!--var city;-->  <!--switch (zip)-->  <!--{-->  <!--case '75210':-->  <!--city = 'Karachi';-->  <!--break;-->  <!--case '12345':-->  <!--city = 'Lahore';-->  <!--break;-->  <!--case '67892':-->  <!--city = 'Peshawar';-->  <!--break;-->  <!--default:-->  <!--city = 'Islamabad';-->  <!--}-->  <!--document.getElementById('city').value = city;-->  <!--}--> <!--</script>-->* |

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| <**p** id=**"slowLoris"**>  Slow lorises are a group of several species of strepsirrhine primates which make up the genus Nycticebus. <**a** href=**"javascript:void(0);"** onClick=**"***expandLoris*();**"**><**em**>Click for more.</**em**></**a**></**p**> <**script**>  **function** *expandLoris*(){  **var** expandedParagraph = **"Slow lorises are a group of several "** +  **"species of trepsirrhine primates which make up the genus "** +  **"Nycticebus. They have a round head, narrow snout, large eyes, "** +  **"and a variety of distinctive coloration patterns that are species-dependent."** +  **"The hands and feet of slow lorises have several adaptations that give them "** +  **"a pincer-like grip and enable them to grasp branches for long periods of time."** +  **" Slow lorises have a toxic bite, a rare trait among mammals."**;   **document**.getElementById(**"slowLoris"**).**innerHTML** = expandedParagraph;  }  </**script**>  </**body**> </**html**> | Lecture12-December20,2015  <!DOCTYPE html> <**html** lang=**"en"**> <**head**>  <**meta** charset=**"UTF-8"**>  <**title**></**title**>  <**style**>  **p**{  color: **blue**;  }  </**style**> </**head**> <**body**> <**p**>This bed is too small.</**p**> <**p**>This bed is too big.</**p**> <**p**>This bed is just right.</**p**> <**p**>Another This bed is just right.</**p**> <**input** type=**"button"** value=**"Change style"**> <**script**>  **var *allParagraphs*** = **document**.getElementsByTagName(**'p'**);  **for**( **var *i*** = 0 ; ***i*** < ***allParagraphs***.**length**; ***i***++)  { ***allParagraphs***[***i***].**style**.**color** = **'blue'**;  } |

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| *// function change(){ // var allParagraphs = document.getElementsByTagName('p'); //allParagraphs[0].style.color = 'blue'; allParagraphs[3].style.color = 'blue'; //for( var i = 0 ; i < allParagraphs.length; i++) // { allParagraphs[i].style.color = 'blue'; // } //// console.log(allParagraphs); //// //// for( var i = 0 ; i < allParagraphs.length; i++) //// { //// allParagraphs[i].style.fontSize = '50px'; //// } // }* </**script**>  </**body**> </**html**> | <!DOCTYPE html> <**html** lang=**"en"**> <**head**>  <**meta** charset=**"UTF-8"**>  <**title**></**title**>  <**style**>  */\*div p{\*/  /\*color: red;\*/  /\*}\*/* </**style**> </**head**> <**body**> <**p**>This bed is too small.</**p**> <**div** id=**"specialParagraphs"**>  <**p**>This bed is too big.</**p**>  <**p**>This bed is just right.</**p**> </**div**> <**p**>Another This bed is just right.</**p**> <**script**>  **var *divArea*** = **document**.getElementById(**'specialParagraphs'**);  **var *paragraphsOfDiv*** = ***divArea***.getElementsByTagName(**'p'**);   **for**( **var *i*** = 0 ; ***i*** < ***paragraphsOfDiv***.**length**; ***i***++)  {  ***paragraphsOfDiv***[***i***].**style**.**color** = **'red'**;  } </**script**> </**body**> </**html**> |

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| <!DOCTYPE html> <**html** lang=**"en"**> <**head**>  <**meta** charset=**"UTF-8"**>  <**title**></**title**>  <**style**>  */\*div p{\*/  /\*color: red;\*/  /\*}\*/* </**style**> </**head**> <**body**> <**p**>This bed is too small.</**p**> <**div** id=**"specialParagraphs"**>  <**p**>This bed is too big.</**p**>  <**p**>This bed is just right.</**p**> </**div**> <**p**>Another This bed is just right.</**p**> <**script**>  **var *divArea*** = **document**.getElementById(**'specialParagraphs'**);  **var *paragraphsOfDiv*** = ***divArea***.getElementsByTagName(**'p'**);   **for**( **var *i*** = 0 ; ***i*** < ***paragraphsOfDiv***.**length**; ***i***++)  {  ***paragraphsOfDiv***[***i***].**style**.**color** = **'red'**;  } </**script**> </**body**> </**html**> | <!DOCTYPE html> <**html** lang=**"en"**> <**head**> <**meta** charset=**"UTF-8"**>  <**title**></**title**> </**head**><**body**> *<!--<p>This bed is too small.</p>--> <!--<p>This bed is too big.</p>--> <!--<p>This bed is just right.</p>--> <!--<script>-->  <!--var allParagraphs = document.getElementsByTagName('p');-->  <!--//allParagraphs[1].innerText = "This is module A class";-->  <!--allParagraphs[1].innerHTML = '<input type="button" value="New Button">'-->  <!--alert(allParagraphs[1].innerHTML);--> <!--</script>-->* <**ul**> <**li**>Apple</**li**>  <**li**>Orange</**li**>  <**li**>Banana</**li**> </**ul**> <**ul** id=**"phones"**> <**li**>Samsung</**li**>  <**li**>Apple</**li**>  <**li**>HTC</**li**> </**ul**> <**script**>  *//var targetUL = document.getElementById('phones');* **var *targetUL*** = **document**.getElementsByTagName(**'ul'**)[1];  **console**.log(***targetUL***);  **var *allListItems*** = ***targetUL***.getElementsByTagName(**'li'**);  **for**( **var *i*** = 0 ; ***i*** < ***allListItems***.**length**; ***i***++)  {  alert(***allListItems***[***i***].innerText);  } </**script**></**body**></**html**> |

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| <!DOCTYPE html> <**html** lang=**"en"**> <**head**>  <**meta** charset=**"UTF-8"**>  <**title**></**title**> </**head**> <**body**> <**div** id=**"container"**> </**div**> <**script**>  **var *fruits*** = [**"Orange"**, **"Apple"**, **"Banana"**];  **var *container*** = **document**.getElementById(**'container'**);  **var *html*** = **'<select>'**;  **for**( **var *a*** = 0 ; ***a*** < ***fruits***.**length**; ***a***++)  {  ***html*** = ***html*** + (**'<option>'** + ***fruits***[***a***] + **'</option>'**);  }  ***html*** = ***html*** + **' </select>'**;  ***container***.**innerHTML** = ***html***; </**script**> </**body**> </**html**> | <!DOCTYPE html> <**html** lang=**"en"**> <**head**>  <**meta** charset=**"UTF-8"**>  <**title**>Links</**title**>  <**style**>  */\*.enlarge{\*/  /\*font-size: 50px;\*/  /\*color: steelblue;\*/  /\*}\*/* **#container**{  width: 50%;  }  </**style**> </**head**> <**body**> *<!--<a id="prev" href="PreDOM.html">Go to previous exercise</a>--> <!--<input type="button" value="get href" onclick="getHREF()">--> <!--<script>-->  <!--function getHREF(){-->  <!--console.log("address is " + document.getElementById('prev').href);-->  <!--}--> <!--</script>--> <!--<form id="userForm">-->  <!--<label>Username</label>-->  <!--<input type="text">-->  <!--<br>-->  <!--<label>Password</label>-->  <!--<input type="password">-->  <!--<input type="submit" value="submit">-->* |

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| *<!--</form>--> <!--<input type="button" value="ENLARGE FORM" onclick="enlargeForm()">--> <!--<script>-->  <!--function enlargeForm(){-->  <!--document.getElementById('userForm').className = 'enlarge';-->  <!--}--> <!--</script>-->* <**div** id=**"container"**>  <**p** id=**"para"** onclick=**"***setMargin*()**"**>The quick brown fox jumps over the lazy dog</**p**> </**div**> <**script**>  **function** *makeBig*(){  **document**.getElementById(**'para'**).**style**.**fontSize** = **'50px'**;  } *//document.getElementById("pic99").style.cssFloat = "left";*  **function** *makeHidden*(){  **document**.getElementById(**"para"**).**style**.**visibility** = **"hidden"**;  }   **function** *setMargin*(){  **document**.getElementById(**"container"**).**style**.**margin** = **"0 30px 0 30px"**;  } </**script**> </**body**> </**html**> | <!DOCTYPE html> <**html** lang=**"en"**> <**head**>  <**meta** charset=**"UTF-8"**>  <**title**></**title**>  <**style**>  .**border** {  border: 10**px black solid**;  }   .**size**{  width : 250**px**;  height: 200**px**;  }  </**style**> </**head**> <**body**> <**img** class=**"size"** src=**"images/apple-iphone6s.jpg"** id=**"phone"** onClick=**"***hideImage*()**"**>  <**script**>  **function** *hideImage*(){  **document**.getElementById(**'phone'**).**className** += **' border'**;    *// a = a + 2 // a += 2* } </**script**> </**body**> </**html**> |

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| <!DOCTYPE html> <**html** lang=**"en"**> <**head**>  <**meta** charset=**"UTF-8"**>  <**title**>Swapping Images</**title**> </**head**> <**body**> *<!--<img src="images/before-apple-iphone.jpg" onMouseover=" src='images/after-apple-iphone.jpg' "-->  <!--onMouseout=" src='images/before-apple-iphone.jpg' ">--> <!--<img id="before" src="images/before-apple-iphone.jpg" onmouseover="swapImage()" onmouseout="revertImage()">--> <!--<script>-->  <!--function swapImage(){-->  <!--document.getElementById('before').src = 'images/after-apple-iphone.jpg';-->  <!--}-->  <!--function revertImage(){--> <!--document.getElementById('before').src = 'images/before-apple-iphone.jpg';-->  <!--}--> <!--</script>-->* <**img** id=**"before"** src=**"images/before-apple-iphone.jpg"** onmouseover=**"***changeImage*(**'before'**, **'images/after-apple-iphone.jpg'**)**"** onmouseout=**"***changeImage*(**'before'**, **'images/before-apple-iphone.jpg'**)**"** > <**script**>  **function** *changeImage*(id, imagePath){  **document**.getElementById(id).**src** = imagePath;  } </**script**> </**body**> </**html**> | Lecture 14-january 3, 2016  <**html** lang=**"en"**>  <**head**>  <**meta** charset=**"UTF-8"**>  <**title**>JS - DOM</**title**>  </**head**>  <**body**>  <**div**>  <**p**>  There's  <**em**>  not  </**em**>  much to do this.  </**p**>  <**p**>  Nor to this.  </**p**>  </**div**>  </**body**> </**html**>    1-12 *<!--DOCUMENT -9 --> <!--ELEMENT - 1--> <!--TEXT - 3--> <!--ATTRIBUTE -2 -->* |

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| <!DOCTYPE html> <**html** lang=**"en"**><**head**>  <**meta** charset=**"UTF-8"**>  <**title**>DOM-Finding Children</**title**> </**head**> <**body**> <**p**>This is module A</**p**> <**div** id=**"divArea"**><**p**>Section A</**p**><**p**>Section B</**p**> </**div**>  <**script**>  *// var p = document.childNodes[1].childNodes[1].childNodes[1].childNodes[1]; // console.log(p); // var div = document.getElementById('divArea'); // // var allParaOfDiv = div.getElementsByTagName('p'); // // alert(allParaOfDiv[0].innerText); // var paragraph = document.getElementById('para1'); // document.write(paragraph.innerText); // var allPara = document.getElementsByTagName('p'); // //console.log(allPara); // //document.write(allPara[0].innerText); // // allPara[0].innerText = "New text goes here";* **var *div*** = **document**.getElementById(**'divArea'**);  alert(***div***.**nodeType**); </**script**> </**body**> </**html**> | <!DOCTYPE html> <**html** lang=**"en"**> <**head**>  <**meta** charset=**"UTF-8"**>  <**title**>DOM</**title**> </**head**> <**body**> <**ul** id=**"unorderedList"**>  <**li**>Mango</**li**>  <**li**>Apple</**li**>  <**li**>Banana</**li**>  <**li**>Peach</**li**> </**ul**> <**script**>  **var *firstLI*** = **document**.getElementsByTagName(**'li'**)[0].firstChild; *// alert(firstLI.nodeType); 1- 12 //alert(firstLI.nodeName); e.g. P, #text //alert(firstLI.nodeValue); There's //var ul = document.getElementById('unorderedList');* **var *firstLI*** = **document**.getElementsByTagName(**'li'**)[0]; **var *secondLI*** = **document**.getElementsByTagName(**'li'**)[1]; *// ul.childNodes[0]; // ul.firstChild; // // ul.childNodes[3]; // ul.lastChild;  //firstLI.parentNode; // firstLI.nextSibling; // // secondLI.previousSibling;* </**script**> </**body**></**html**> |

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| <!DOCTYPE html> <**html** lang=**"en"**> <**head**>  <**meta** charset=**"UTF-8"**>  <**title**>DOM</**title**> </**head**> <**body**> <**ul** id=**"unorderedList"** class=**"blue"**>  <**li**>Mango</**li**>  <**li**>Apple</**li**>  <**li**>Banana</**li**>  <**li**>Peach</**li**> </**ul**> <**script**>  **var *ul*** = **document**.getElementById(**'unorderedList'**);  *ul.hasAttribute('class'); //true // ul.hasAttribute('style'); //false // alert(ul.getAttribute('id')); // ul.setAttribute('class', 'red');  // var allAttributes = ul.attributes; // console.log(allAttributes);* </**script**> </**body**> </**html**> | <!DOCTYPE html> <**html** lang=**"en"**> <**head**>  <**meta** charset=**"UTF-8"**>  <**title**>DOM</**title**> </**head**> <**body**> <**div**>  <**p**>Paragraph 0</**p**>   <**p**>Paragraph 2</**p**> </**div**> </**body**> <**script**>   **var *div*** = **document**.getElementsByTagName(**'div'**)[0];  **var *istChild*** = ***div***.**childNodes**[1];  ***div***.removeChild(***istChild***);   *// var p = document.createElement('p'); // p.innerText = 'Paragraph 1'; // //p.createTextNode('Paragraph 1'); // p.setAttribute('id', 'para1'); // //// var firstPara = document.getElementsByTagName('p')[1]; //// div.insertBefore(p, firstPara)* </**script**> </**html**> |