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1  /* JavaScript is a case-sensitive language. JavaScript code can be in an external
2     file with a .js extension, or embedded inside a HTML file within
3     <script> </script> tags .
4  */
5  var someVariable = 0;
6
7  /* A declaration of a variable without var keyword makes the variable global.
8     JavaScript is a dynamic type language (its data type is determined by
9     the value being assigned to it. If it has no value assigned to it then
10    is considered undefined and therefore should not be used in an expression,
11    thus a variable has to be initilized before used in an expression.)
12  */
13
14  // This is a single line comment
15  /* This is a single/multiple lines
16     comment
17  */
18
19  /* Comparison operators */
20  if(A == B) {...}
21  if(A != B) {...}
22  if(A > B) {...}
23  if(A < B) {...}
24  if(A >= B) {...}
25  if(A <= B) {...}
26  if(A === B) {...}
27
28  /* Logical Operators: */
29  if(A && B) {...}
30  if(A || B) {...}
31  if(A && B) {...}
32
33  /* Assignment Operators: */
34  C = A + B
35  C += A is equivalent to C = C + A
36  C -= A is equivalent to C = C - A
37  C *= A is equivalent to C = C * A
38  C /= A is equivalent to C = C / A
39  C %= A is equivalent to C = C % A
40
41  /* Control Operators */
42  if(SomeBooleanExpression)
43  {
44      ...
45  }
46  else if(SomeBooleanExpression)
47  {
48      ...
49  }
50  else
51  {
52      ...
53  }
54
55  switch(SomeIntegralValue)
56  {
57      case SomeConstant:
58          ...
59          break;
60          .
61          .
62          .
63      default:
64          ...
65  }
66

```

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67 // Ternary Operator
68 var SomeVariable = (SomeBooleanExpression) ? IfTrueAssignThisValue :
ElseAssignThisValue;
69 Example:
70 var a = 10;
71 var result = (a > 5)?"Good":"Bad"; // The value assigned to result is Good
72
73 // Loop Operation
74 for(SomeValue = Initialize; SomeBooleanExpression; Increment/decrement-SomeValue)
{...}
75 Example: for(i = 0; i < 5; i++) {...}
76
77 while(SomeBooleanExpression) {...}
78 Example:
79 var i = 0;
80 while(i < 5)
81 {
82     ...
83     i++;
84 }
85
86 do {...} while(SomeBooleanExpression);
87 Example:
88 var i = 0;
89 do {
90     ...
91     i++;
92 }while(i < 5);
93
94 /* Array, declared and initialized */
95 var cars = ["Toyota", "BMW", "Ford"];
96 cars[1] = "Dodge"; // BMW is chanded to Dodge
97
98 /* Array, declared and then assigned values */
99 var cars = Array();
100 cars[0] = "Ford";
101 cars[1] = "Fiat";
102
103 /* Associative array, a key and value pair */
104 var person = {firstName:"John", lastName:"Doe", age:46};
105 person["firstName"] = "Tom"; // John is changed to Tom
106
107 /* Functions */
108 function SomeFunction(param1, param2, ...) {...}
109 Example:
110 function add(num1, num2)
111 {
112     return num1 + num2;
113 }
114
115 var result = add(3, 4);
116

```