

```

1 // # Chapter Three
2 /*****
3 # How to use "Logical Operator (&&, //, !)" in javaScript
4     Logical operators are used to determine the logic between variables or values.
5
6     There are Three types of Logical Operator...
7     Given that x = 6 and y = 3, the table below explains the logical operators:
8
9     |-----|-----|-----|
10    | Operator | Description | Example |
11    |-----|-----|-----|
12    |    &&    |    and    | (x < 10 && y > 1) is true |
13    |    ||    |    or     | (x == 5 || y == 5) is false |
14    |    !    |    not    | !(x == y) is true |
15    |-----|-----|-----|
16
17    Logical Operator Only Used When We have Two or More Conditions and Result
18    Comes from both of Their Participation.
19
20 *****/
21
22 /*****
23
24     |-----|
25     | A && B (And Operator) |
26     |-----|
27     | true && true = true |
28     | true && false = false |
29     | false && true = false |
30     | false && false = false |
31     |-----|
32     | A || B (Or Operator) |
33     |-----|
34     | true || true = true |
35     | true || false = true |
36     | false || true = true |
37     | false || false = false |
38     |-----|
39     | !(a > b) (Not Operator) |
40     |-----|
41     | # If default value is true and use not operator |
42     | sign then chance the value and |
43     | This value will be false |
44     |
45     | # If default value is false and use not |
46     | operator sign then chance the value and |
47     | This value will be true |
48     |-----|
49
50
51 *****/
52
53
54
55 var a = 30
56 var b = 20
57 var c = 30
58 var d = 40
59
60

```

```

61
62 if (a > b && c > d) {
63     console.log("A is greater than B And C is greater than D")
64 } else {
65     console.log("At Least One Condition is False")
66 }
67
68 /***** Output *****/
69 bappy@bAppY MINGW64 ~ JavaScript {Note} All You Need to Know/3. Chapter_Three
70 $ node "5-logicalOperator.js"
71 At Least One Condition is False
72
73 /*****
74 |-----|
75 |                A || B   (Or Operator)                |
76 |-----|
77 |                true || true = true                    |
78 |                true || false = true                   |
79 |                false || true = true                   |
80 |                false || false = false                 |
81 |-----|
82 |-----|
83 *****/
84 if (a > b || c > d) {
85     console.log("A is greater than B Or C is greater than D")
86 } else {
87     console.log("At Least One Condition is False")
88 }
89
90 /***** Output *****/
91 bappy@bAppY MINGW64 ~ JavaScript {Note} All You Need to Know/3. Chapter_Three
92 $ node "5-logicalOperator.js"
93 At Least One Condition is False
94 A is greater than B Or C is greater than D
95
96 /*****
97 |-----|
98 |                !(a > b) (Not Operator)                |
99 |-----|
100 | # If default value is true and use not operator      |
101 |   sign then chance the value and                     |
102 |   This value will be false                           |
103 |
104 | # If default value is false and use not              |
105 |   operator sign then chance the value and            |
106 |   This value will be true                           |
107 |-----|
108 *****/
109
110 var check = !(a > b)
111 console.log(check)
112
113 /***** Output *****/
114 bappy@bAppY MINGW64 ~ JavaScript {Note} All You Need to Know/3. Chapter_Three
115 $ node "5-logicalOperator.js"
116 At Least One Condition is False
117 A is greater than B Or C is greater than D
118 false

```