

## JavaScript – Conditional Statement: if-else

### Practice Problems

**Answer the following questions and run the code in Codepen.**

Q1. Take the values given below of length and breadth of a rectangle and check if it is square or not. Change values and see if your code works or not.

```
var length=200;  
var breadth=200;
```

length == breadth = true

200 equals 200, so it is a square

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Q2. Write some code to check which number is greatest. Change values and see if your code works or not.

```
var num1=5, num2=8, num3=20;
```

num3 > num2 = true  
num3 > num 1= true

num3 is the greatest of the 3 by comparison

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Q3. A school has following rules for grading system:

MARKS	GRADE
Below 25	F
25 to 45	E
45 to 50	D
50 to 60	C
60 to 80	B
Above 80	A

```
var enteredMarks = 77
```

Change the value of *enteredMarks* and print the corresponding grade.

```
if enteredMarks >= 60 && enteredMarks <= 80 { enteredMarks = 'B' }  
console.log(enteredMarks) // 'B'
```

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Q4.

```
var numberOfItemPurchased = 8
```

A shop will give a discount of 10% if the cost of the purchased quantity is more than 1000. Suppose, one unit will cost 100. Change the value of *numberOfItemPurchased* and print total cost for the user.

```
numberOfItemPurchased = 11  
if ((numberOfItemPurchased * 100) > 1000) {  
    console.log((numberOfItemPurchased * 100) * 0.9) // Cost  
}
```

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**Codepen URL:** <https://codepen.io/qaifikhan/pen/GemzZx>

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All the Best!