

Loops Exercise1 – Solutions

```
1 // Write a program that computes average marks of the following students. Then use this average to determine the corresponding grade.
2
3
4 var students = [
5     ['David', 80],
6     ['Marko', 77],
7     ['Dany', 88],
8     ['John', 95],
9     ['Thomas', 68]
10 ];
11
12 var avgPoints;
13 var sumOfPoints = 0;
14 var numOfStudents = students.length;
15
16 for(var i = 0; i < numOfStudents; i++) {
17     var currentStudentName = students[i][0];
18     var currentStudentPoints = students[i][1];
19     sumOfPoints += currentStudentPoints;
20
21     if(currentStudentPoints < 60) {
22         console.log(currentStudentName + "'s' grade is: F");
23     } else if(currentStudentPoints < 70) {
24         console.log(currentStudentName + "'s' grade is: D");
25     } else if(currentStudentPoints < 80) {
26         console.log(currentStudentName + "'s' grade is: C");
27     } else if(currentStudentPoints < 90) {
28         console.log(currentStudentName + "'s' grade is: B");
29     } else if(currentStudentPoints < 100) {
30         console.log(currentStudentName + "'s' grade is: A");
31     }
32 }
33
34 avgPoints = sumOfPoints / numOfStudents;
35
36 // avg grad eof class
37 if(avgPoints < 60) {
38     console.log("Avg grade is: F");
39 } else if(avgPoints < 70) {
40     console.log("Avg grade is: D");
41 } else if(avgPoints < 80) {
42     console.log("Avg grade is: C");
43 } else if(avgPoints < 90) {
44     console.log("Avg grade is: B");
45 } else if(avgPoints < 100) {
46     console.log("Avg grade is: A");
47 }
48
```

```
1 // Write a program that uses console.log to print all the numbers from 1 to 100, with two exceptions.
2 // For numbers divisible by 3, print "Fizz" instead of the number, and for numbers divisible by 5 (and not 3), print "Buzz" instead.
3 // When you have that working, modify your program to print "FizzBuzz", for numbers that are divisible by both 3 and 5
4 // (and still print "Fizz" or "Buzz" for numbers divisible by only one of those).
5
6 for(var i = 1; i <= 100; i++) {
7     if(i % 3 === 0 && i % 5 === 0) {
8         console.log('FizzBuzz!');
9     } else if(i % 3 === 0) {
10        console.log('Fizz!');
11    } else if(i % 3 !== 0 && i % 5 === 0) {
12        console.log('Buzz!');
13    } else {
14        console.log(i);
15    }
16 }
17
```