**Question 1**

What will the code below output to the console and why ?

* console.log(1 + "2" + "2");

**Output : 122**

**Explanation :** 1 is an integer and the other both numbers are in Quotations marks (“ ”) so they are taken String as a input. Therefore, **the answer is 122**.

* console.log(1 + +"2" + "2");

**Output : 32**

**Explanation :** 1 is an integer and using +”2” caste the string value (“2”) in a number. Therefore, (1 + 2 + “2”) **the answer is 32**

* console.log(1 + -"1" + "2");

**Output : 02**

**Explanation :** 1 is an integer and using -”1” caste the string value (“1”) in a number. Therefore, (1 - 1 + “2”) **the answer is 02**

* console.log(+"1" + "1" + "2");

**Output : 112**

**Explanation :** All the values are written in Quotations marks (“”) so, all are taken input as String. Therefore, (+“1” +” 1” + “2”) **the answer is 112**

* console.log( "A" - "B" + "2");

**Output :NaN2**

**Explanation :** As (“A” “B”) are two String so we cannot subtract it as NaN stands for “Not-a-Number” and “2” is a String so it will be printed. Therefore, (“A”-”B”+ “2”) **the answer is NaN2**

* console.log( "A" - "B" + 2);

**Output :NaN**

**Explanation :** As (“A” “B”) are two String so we cannot subtract it with an integer value 2 as NaN stands for “Not-a-Number” . Therefore, (“A”-”B”+ 2) **the answer is NaN**

**Question 2**

You are given a variable “marks”. Your task is to print:

- AA if the mark is greater than 90

- AB if the mark is greater than 80 and less than or equal to 90

- BB if the mark is greater than 70and less than or equal to 80

- BC if the mark is greater than 60 and less than or equal to 70

- CC if the mark is greater than 50 and less than or equal to 60

- CD if the mark is greater than 40 and less than or equal to 50

- DD if the mark is greater than 30 and less than or equal to 40

- FF if the mark is less than or equal to 30

**Code:**

<!DOCTYPE html>

<html>

<head>

    <title>Assignment 1</title>

</head>

<body>

    <script>

        var marks = 59;

        if(marks > 90){

            console.log("AA");

        }

        else if(marks > 80 && marks <=90 ){

            console.log("AB");

        }

        else if(marks > 70 && marks <=80){

            console.log("BB");

        }

        else if(marks > 60 && marks <=70){

            console.log("BC");

        }

        else if(marks > 50 && marks <=60){

            console.log("CC");

        }

        else if(marks > 40 && marks <=50){

            console.log("CD");

        }

        else if(marks > 30 && marks <=40){

            console.log("DD");

        }

        else if(marks <= 30){

            console.log("FF");

        }

        else{

            console.log("Enter correct marks");

        }

    </script>

</body>

</html>

**Output : CC**

**Explanation :** As the marks = 59 it will print **the output as CC**