

Let's Upgrade Javascript Essentials

Assignment -01(Day-02)

Q.1 What will the code below output to the console and why ?

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

OUTPUT: 122 Taking all elements as a string

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

OUTPUT: 32

ADDING 1+2=3 AND NEXT 2 IS TAKEN AS STRING SO 3+"2"=32

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

Output: 02 1-1=0 is taken as string and 2 is taken as string
"0"+"2"=02

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

Output: 112 all elements are taken as string

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

Output: NaN2 diff of any two characters show NaN , and "2" is taken as string so NaN2

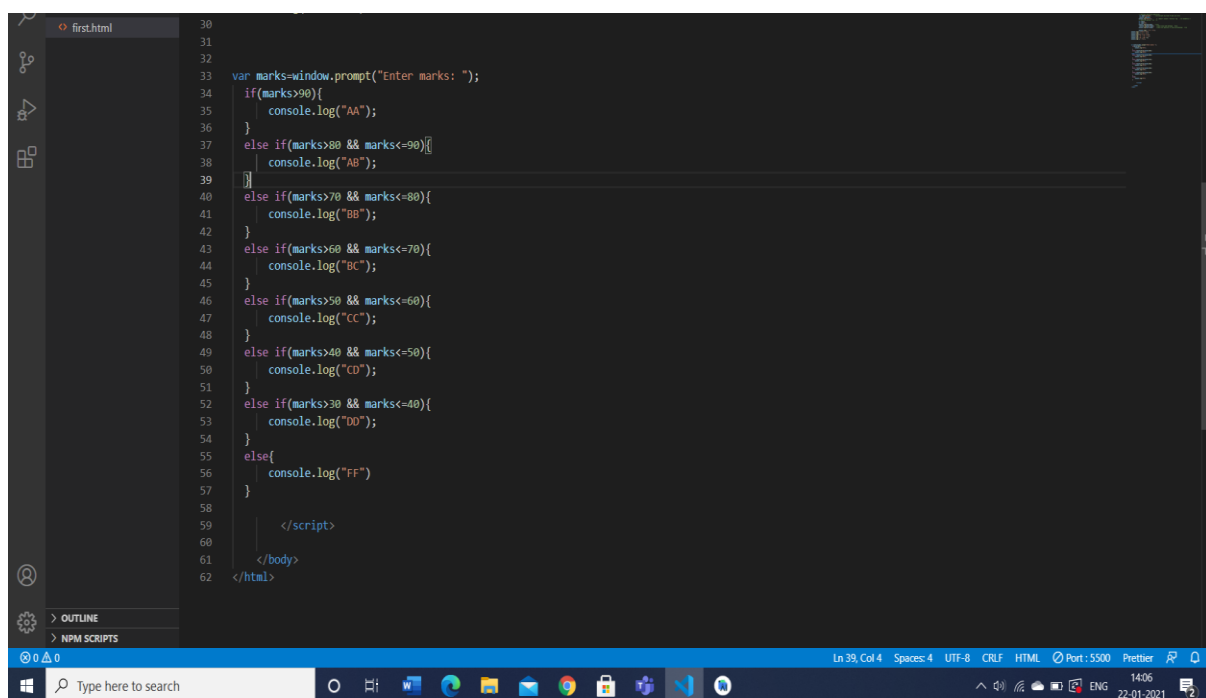
```
console.log( "A" - "B" + 2);
```

Output: NaN Same as above but 2 is not taken as string.

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 70 and 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



The screenshot shows a code editor with a dark theme. The file is named 'first.html'. The code is a JavaScript script that uses a series of if-else statements to determine a grade based on a user input 'marks'. The code is as follows:

```
30
31
32
33 var marks=window.prompt("Enter marks: ");
34 if(marks>90){
35     console.log("AA");
36 }
37 else if(marks>80 && marks<=90){
38     console.log("AB");
39 }
40 else if(marks>70 && marks<=80){
41     console.log("BB");
42 }
43 else if(marks>60 && marks<=70){
44     console.log("BC");
45 }
46 else if(marks>50 && marks<=60){
47     console.log("CC");
48 }
49 else if(marks>40 && marks<=50){
50     console.log("CD");
51 }
52 else if(marks>30 && marks<=40){
53     console.log("DD");
54 }
55 else{
56     console.log("FF")
57 }
58
59 </script>
60
61 </body>
62 </html>
```

The editor's status bar at the bottom indicates 'Ln 39, Col 4', 'Spaces: 4', 'UTF-8', 'CRLF', 'HTML', 'Port: 5500', 'Prettier', and the system clock shows '14:06' on '22-01-2021'.