Assignment 1

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

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

Ans.   Output is 122. First it displays 1, after that next is 2 but it is in double quotation (" ")

That means it is a string. So 2 is displayed as a string. Again there is 2 in double quotation and it is given as a string. So again another 2 is displayed in console as a string. So the output is 122.

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

Ans.   Output is 32. There is increment operator so it prints 3 and after 2.

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

Ans.   Output is 02. It gives subtraction of 1-1 i.e. 0. After it prints 2.

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

Ans.   Output is 112. All numbers are given as strings. So they displayed as it is.

5) console.log("A" − "B" + "2");

Ans.   Output is Nan2. Subtraction between characters cannot be done. So it displays Nan and after displays 2 which is given as string.

6) console.log("A" − "B" + 2);

Ans.   Output is Nan. Subtraction between characters cannot be done. And can't display 2.

Q. 2. You are given a variable "marks". Your task is to print:

1) AA if the mark is greater than 90.

Ans.   if(marks>90)

```
{
        console.log("A");
}
```

2) AB if the mark is greater than 80 and less than or equal to 90.

Ans.   if(marks>80 && marks<=90)

```
{
        console.log("AB");
}
```

3) BB if the mark is greater than 70 and less than or equal to 80.

Ans.   if(marks>70 && marks<=80)

```
{
        console.log("BB");
}
```

4) BC if the mark is greater than 60 and less than or equal to 70.

Ans.   if(marks>60 && marks<=70)

```
{
        console.log("BC");
}
```

5) CC if the mark is greater than 50 and less than or equal to 60.

Ans.   if(marks>50 && marks<=60)

```
{
        console.log("CC");
}
```

6) CD if the mark is greater than 40 and less than or equal to 50.

Ans.   if(marks>40 && marks<=50)

```
{
        console.log("CD");
}
```

7) DD if the mark is greater than 30 and less than or equal to 40.

Ans.   if(marks>30 && marks<=40)

```
{
        console.log("DD");
}
```

8) FF if the mark is less than or equal to 30.

Ans.   if(marks<=30)

```
{
        console.log("FF");
}
```