

ITP JS

Week 1

Practice Questions

1. Look at the following code:

```
var t1 = 'Hello World';  
var t2;  
  
console.log(t1);  
console.log(t2);  
console.log(t3);
```

What will be the output of the program? Explain the output

2. Look at the following code:

```
var num1 = 10;  
var num2 = '20';  
  
console.log(num1 + num2);
```

The output of the program is NOT 30, why so and why did the output got different? Find a way to output 30 without modifying the first two lines or adding more lines of code. (not taught directly in class)

3. Write a program that takes 3 names as input (prompt() function) and outputs the highest name according to lexicographical order. For example, if name1 = "samyo" and name2 = "abir", then the final output should be "samyo", because it is higher in lexicographical order (the letter "s" comes after "a"). **Use of ternary operator is a must for this program.**

HINT: It's far easier than you think 😊

4. Write a program that takes a student's obtained mark in a particular subject and outputs the grade corresponding to the mark. If the student gets 79.5, it should be rounded to 80 and shown as A+ (considering ≥ 80 corresponds to A+)

Hint: Look for how a number can be rounded in JavaScript

5. Design an employee qualification system. The job of the system is to first take the employee's personal information, these are
 - a. Name
 - b. Age
 - c. Skills:
 - i. Soft Skills (array)
 - ii. Technical Skills (array)
 - d. Location

For an employee to qualify for the job, he needs to meet all the requirements mentioned below:

- Age must be greater than or equal to 30
- Number of technical skills should be greater than soft skills
- The person must be living in either Texas or Florida

If the person qualifies, your program should output "(name) is qualified for the job)

Demonstration of Object is a must here, avoid using variables unless absolutely required.

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