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Javascript assignment

1. What are variables in JavaScript?

Variable is a container that is use to store data on memory(RAM).

For exmaple :

Let num = 5;

Let company = "EB";

2. What are the rules for naming variables?

There are four rules for naming variable

1. No space allowed in variable name
2. Only letter , number , "_" "\$" are allowed
3. Javascript is Case sensitive
(Name and name both are different)
4. Name of variable should not start from number

3. What are the different data types in JavaScript?

String let str ="hello ";

Boolen true /false

Number let num = 5;

Object let student{key:value}

Null let a=Null;

Undefine let haris;

Array let arr=[1,2,3,4,4,5,5]

4. What is the difference between == and ===?

== checks only *value*.

==== checks *value + type*.

Example:

5 == "5" true

5 === "5" false

5. Convert "10" to a number using JavaScript?

```
Let num = "10";  
Console.log(typeof num);  
So it string  
Now to convert to number  
Num=+"10";  
Console .log(typeof num);
```

6. What will be the output of 5 + "5"?

"55" (because number + string = string concatenation).

7. What is the result of true && false?

False

8. What is the difference between null and undefined?

null = empty value (assigned intentionally).

Undefined = value not assigned.

9. What is the difference between alert, prompt and confirm?

```
alert("Hi") → shows a message.  
prompt("Enter name") → asks user input.  
confirm("Are you sure?") → returns true/false.
```

10. Write a JavaScript script (JS code) to swap two numbers.

```
let a = 5, b = 10;  
let temp = a;  
a = b;  
b = temp;  
console.log(a, b);
```