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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 ";

Boolean    true /false

Number    let num = 5;

Object    let student{key:value}

Null      let a=NULL;

Undefined 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);
```