

JavaScript -Task2

1. Welcome Program

- Ask user name using prompt().
- Show alert: Hi , Welcome to JavaScript Training.
- Print the same message in console.

Ans:

```
let Name = prompt("Please Enter your Name:");  
let message = ("Hi " +Name+" , Welcome to javascript Training");  
alert(WelcomeMessage);  
console.log(WelcomeMessage);  
Output: Hi Harish, Welcome to javascript Training
```

2. Console Methods Practice

- Print 500 using console.log(), console.warn(), console.error().
- Use console.clear().

Ans:

```
console.log(500);  
console.warn(500);  
console.error(500);  
console.clear();
```

Output: 500

!500

X500(error)

console cleared

3. Data Type Identification

- Create string, number, boolean, undefined, and null variables.
- Print value and type using typeof.

Ans:

```
let Name = "Harish";  
let age = 22;  
let LearningJavaScript = true;  
let city;  
let result = null;  
console.log(Name, typeof Name);  
console.log(age, typeof age);  
console.log(LearningJS, typeof LearningJS);  
console.log(city, typeof city);  
console.log(result, typeof result);
```

Output:

Harish string

22 'number'

true 'boolean'

undefined 'undefined'

null 'object'

4. Arithmetic Operations

- Use let a = 20 and let b = 5.
- Perform +, -, *, /, %, ** and print results.

Ans:

```
let a= 20;  
let b= 5;  
console.log(a+b);  
console.log(a-b);  
console.log(a*b);  
console.log(a/b);  
console.log(a%b);  
console.log(a**b);
```

Output:

```
25  
15  
100  
4  
0  
3200000
```

5. Increment & Decrement

- Demonstrate pre-increment, post-increment, pre-decrement, post-decrement.
- Print variables clearly.

Ans:

```
let x = 10;  
console.log("Pre-Increment (++x):", ++x);  
console.log("pre-increment:", x);
```

```
console.log("Post-Increment (x++):", x++);  
console.log("post-increment:", x);
```

```
console.log("Pre-Decrement (--x):", --x);  
console.log("pre-decrement:", x);
```

```
console.log("Post-Decrement (x--):", x--);  
console.log("post-decrement:", x);
```

output:

```
Pre-Increment (++x): 11  
pre-increment: 11  
Post-Increment (x++): 11  
post-increment: 12  
Pre-Decrement (--x): 11  
pre-decrement: 11  
Post-Decrement (x--): 11  
post-decrement: 10
```

6. Assignment Operators

- Use let num = 10.
- Perform +=, -=, *=, /=, %= and print results.

Ans:

```
let num = 10;
num += 5;
console.log("num=num + 5 = ", num);
num -= 5;
console.log("num=num - 5 = ", num);
num *= 5;
console.log("num=num * 5 = ", num);
num /= 5;
console.log("num=num / 5 = ", num);
num %= 5;
console.log("num=num % 5 = ", num);
```

Output:

```
num=num + 5 = 15
num=num - 5 = 10
num=num * 5 = 50
num=num / 5 = 10
num=num % 5 = 0
```

7. Array Access

- Create array ['HTML','CSS','JavaScript','React'].
- Print first element, second element, last element (using length), and total elements.

Ans:

```
let Arr = ['HTML', 'CSS', 'JavaScript', 'React'];
```

```
console.log("First element:", Arr[0]);
console.log("Second element:", Arr[1]);
console.log("Last element:", Arr[Arr.length - 1]);
console.log("Total elements:", Arr.length);
```

Output:

```
First element: HTML
Second element: CSS
Last element: React
Total elements: 4
```

8. Modify Array

- Add one element at end.
- Remove last element.
- Print updated array.

Ans:

```
let Arr = ['HTML', 'CSS', 'JavaScript', 'React'];
Arr.push('NodeJS');
console.log(Arr);
Arr.pop();
console.log(Arr);
```

Output:

```
['HTML', 'CSS', 'JavaScript', 'React', 'NodeJS']  
['HTML', 'CSS', 'JavaScript', 'React']
```

9. Student Object

- Create object with name, age, course, city.
- Print values using dot notation.

Ans:

```
let student = {  
  name: "Harish",  
  age: 22,  
  course: "JavaScript",  
  city: "Salem"  
};  
console.log("Name:", student.name);  
console.log("Age:", student.age);  
console.log("Course:", student.course);  
console.log("City:", student.city);
```

output:

```
Name: Harish  
Age: 22  
Course: JavaScript  
City: Salem
```

10. Nested Object Practice

- Create company object with nested trainer object.
- Print company name, trainer name, trainer subject.

Ans:

```
let company = {  
  name: "The stackly",  
  trainer: {  
    name: "Naveenkumar",  
    subject: "JavaScript"  
  }  
};  
console.log("Company Name:", company.name);  
console.log("Trainer Name:", company.trainer.name);  
console.log("Trainer Subject:", company.trainer.subject);
```

output:

```
Company Name: The stackly  
Trainer Name: Naveenkumar  
Trainer Subject: JavaScript
```