

IT & Computer Science

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Lab 06 Web Engineering

Basic JavaScript Fundamentals

Task 01:

Code:

```
<!-- Task 01 Car Parking Tool System-->
<script>

    let numberHours;

    numberHours = parseInt(prompt("Number of Housr"))

    console.log("Hours Parked: " + numberHours);

    let vip = confirm("Are You a VIP? Yes/No!")

    console.log("VIP Customer: " + vip);

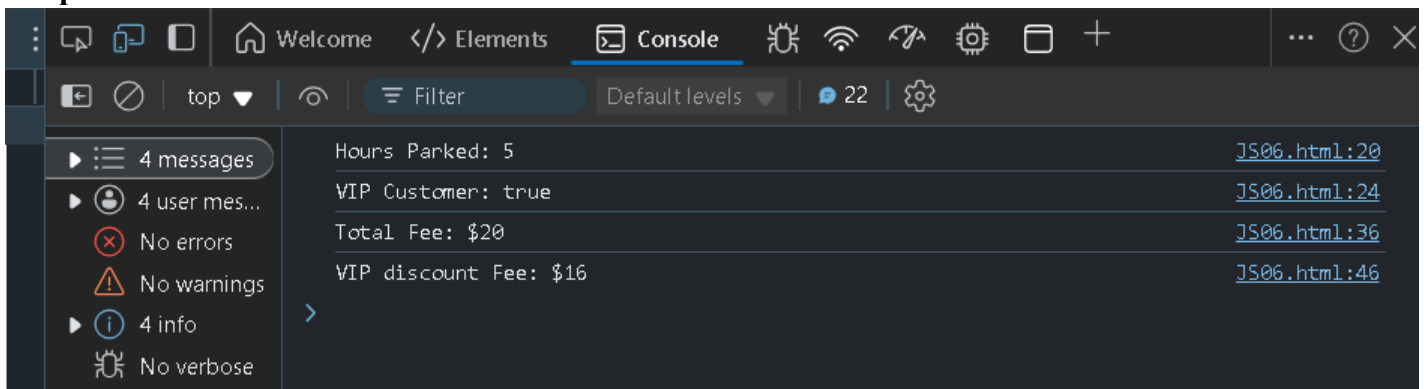

    let hourRate = 0;

    if (numberHours <= 2) {
        hourRate = 5;
        let total = console.log("Total Fee: $" + hourRate * numberHours);
    }
    else if(numberHours >= 3) {
        hourRate = 4;
        let total = console.log("Total Fee: $" + hourRate * numberHours);
    }
    else {
        hourRate = 3;
        let total = console.log("Total Fee: $" + hourRate * numberHours);
    }

    if (vip) {
        let total = console.log("VIP discount Fee: $" + (hourRate * numberHours) * 0.8)
    }

</script>
```

Output:



Task 02

Code:

```
<!-- Task 02 Loan Interest Calculator-->
<script>
    let loanAmount = parseInt(prompt("Enter Loan Amount: "));

    let interestRate = 0;
    let interest = 0;
    let total = 0;

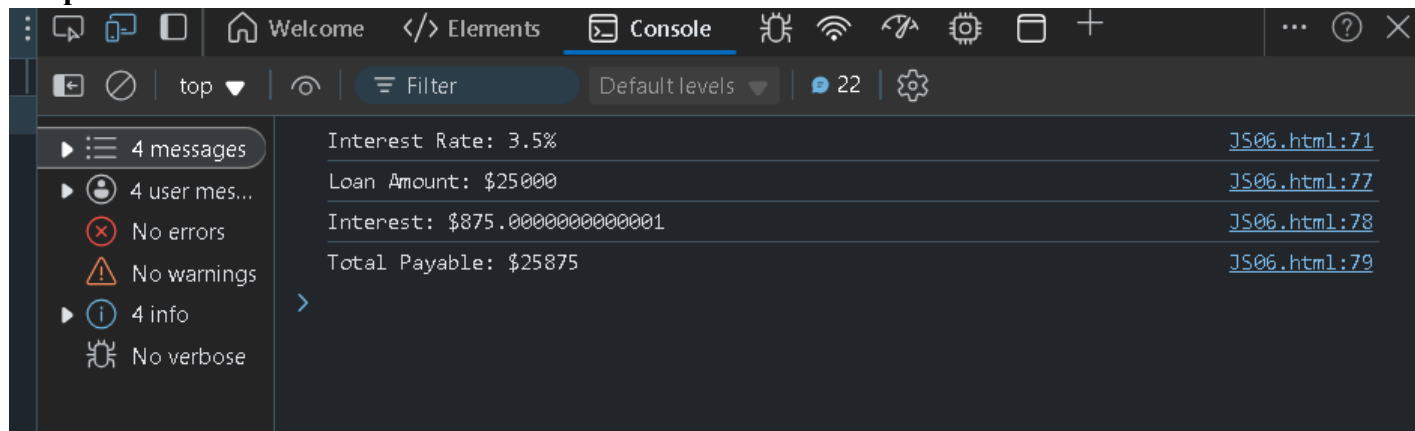
    if (loanAmount <= 10000) {
        interestRate = 0.05;
        console.log("Interest Rate: 5%");
    }
    else if (loanAmount >= 50000) {
        interestRate = 0.04;
        console.log("Interest Rate: 4%");
    }
    else {
        interestRate = 0.035;
        console.log("Interest Rate: 3.5%");
    }

    interest = loanAmount * interestRate;
    total = loanAmount + interest;

    console.log("Loan Amount: $" + loanAmount);
    console.log("Interest: $" + interest);
    console.log("Total Payable: $" + total);

</script>
```

Output:



Task 03

Code:

```
<!-- Task 03 Shopping Discount System -->
<script>

    let shoppingAmount = parseInt(prompt("Your Shopping Amount: "));

    let discount = 0;
    let total = 0;

    if (shoppingAmount < 100) {
        discount = 0;
        console.log("Discount Applied: 0%");
    }
    else if (shoppingAmount >= 100 && shoppingAmount <= 500) {
        discount = 0.1;
        console.log("Discount Applied: 10%");
    }
    else {
        discount = 0.15;
        console.log("Discount Applied: 15%");
    }

    let discountAmount = shoppingAmount * discount;
    total = shoppingAmount - discountAmount;

    console.log("Shopping Amount: $" + shoppingAmount);
    console.log("Discount Amount: $" + discountAmount);
    console.log("Total Payable: $" + total);

</script>
```

Task 04

Code:

```
<!-- Task 04 Employee Salary Calculator -->
<script>

    let yearExperience = parseInt(prompt("Your Year of Experience: "));

    let bonus = 0;
    let baseSalary = 1000;
    let totalSalary = 0;

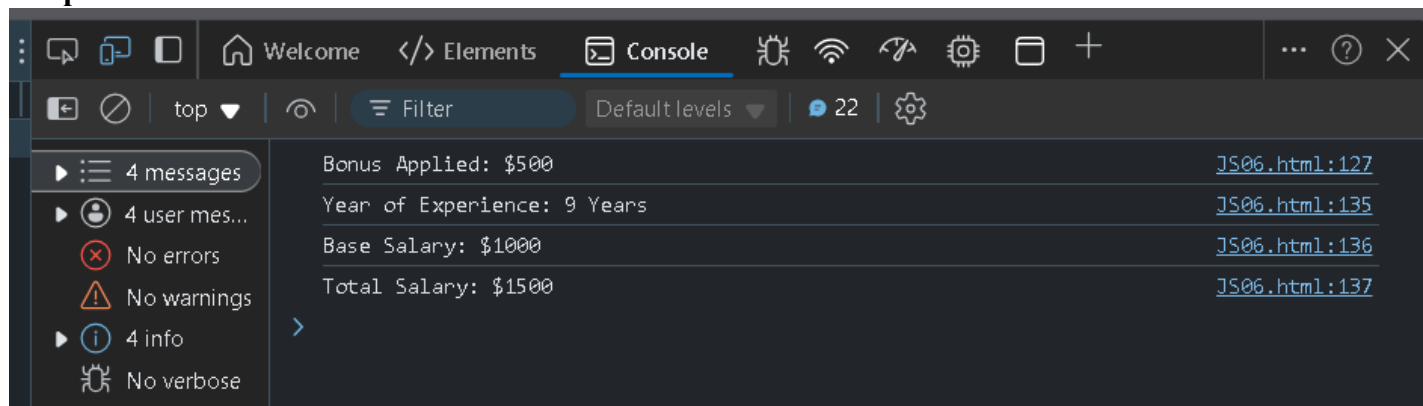
    if (yearExperience > 5) {
        bonus = 500;
        console.log("Bonus Applied: $500");
    }
    else {
        bonus = 0;
    }

    totalSalary = baseSalary + bonus;

    console.log("Year of Experience: " + yearExperience + " Years");
    console.log("Base Salary: $" + baseSalary);
    console.log("Total Salary: $" + totalSalary);

</script>
```

Output:



Task 05

Code:

```
<!-- Task 05 String Manipulation -->
<script>

    let name = prompt("Enter Employee Name:");

    let upperCaseName = name.toUpperCase();

    let lowerCaseName = name.toLowerCase();

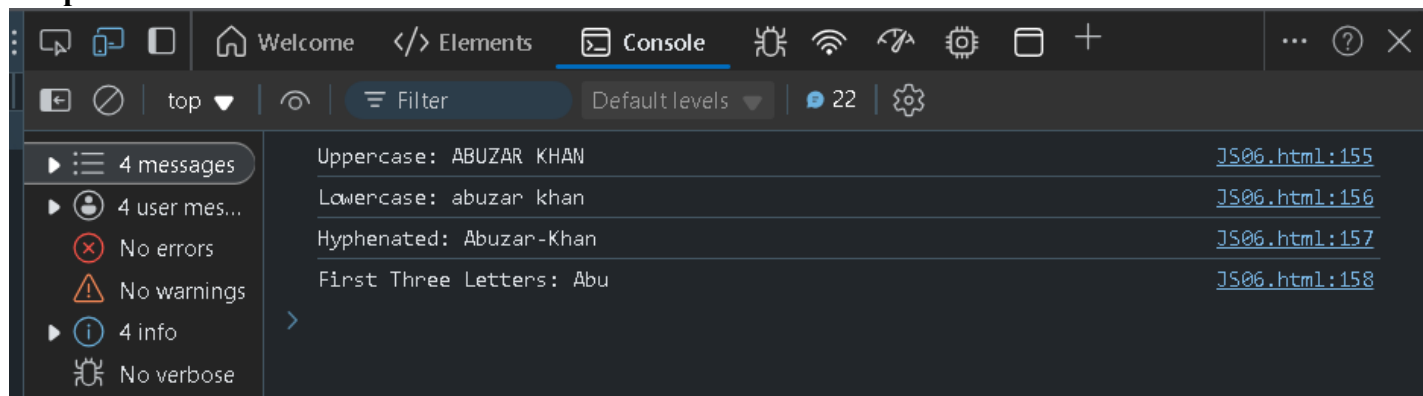
    let hyphenatedName = name.replace(" ", "-");

    let firstThreeLetters = name.substring(0, 3);

    console.log("Uppercase: " + upperCaseName);
    console.log("Lowercase: " + lowerCaseName);
    console.log("Hyphenated: " + hyphenatedName);
    console.log("First Three Letters: " + firstThreeLetters);

</script>
```

Output:



END!