Pak-Austria Fachhochschule Institute of Applied Sciences and Technology, Haripur
LAB 06 - FALL 2024

Class:	BSSE-F22 RED	Date:	28/02/2025
Subject:	Web Engineering	Instructor:	MR Umar _____
Time Allowed:	2 hr 30 min.	Lab Engineer:	Khizar Hayat

Instructions:

You are required to complete the following lab task individually. **Plagiarism or copying from other students is strictly prohibited.** Ensure that your work is original and reflects your understanding of the task.

1. Car Parking Toll System
Scenario:

A parking lot charges different rates based on the hours parked.

Requirements:

- **Ask the user** for the number of hours parked (prompt()).
- Apply **hourly rates**:
- **1-2 hours:** $5 per hour
- **3-5 hours:** $4 per hour
- **More than 5 hours:** $3 per hour
- If the **user is a VIP**, apply a **20% discount** (use a confirm() box).
- Use **loops** to check for multiple cars.
- Display the **total parking fee** using console.log().

Output:

```
Hours parked: 4
VIP customer? Yes
Total Fee: $12.80
```

2. Loan Interest Calculator

Scenario:

A bank offers different interest rates based on loan amounts.

Requirements:

- Ask the user to **enter the loan amount**.
- Apply interest rates:
- **Below $10,000:** 5% interest
- **$10,000 - $50,000:** 4% interest
- **Above $50,000:** 3.5% interest
- Use **type conversion** (parseFloat()).
- Use an **arrow function** to calculate the final amount.
- Print the **final amount after interest** using alert().

Output:

```
Loan: $20,000
Interest: 4%
Total Payable: $20,800
```

3. Shopping Discount System

Scenario:

An e-commerce website offers discounts based on the total shopping amount.

Requirements:

- **Ask the user** for the shopping amount.
- Apply discounts:
- **Below $100:** No discount
- **$100 - $500:** 10% discount
- **Above $500:** 15% discount
- Use **a function** to calculate the final amount.
- Display the **discounted price** using console.log().

Output:

```
Total shopping: $450
Discount Applied: 10%
Final Bill: $405
```
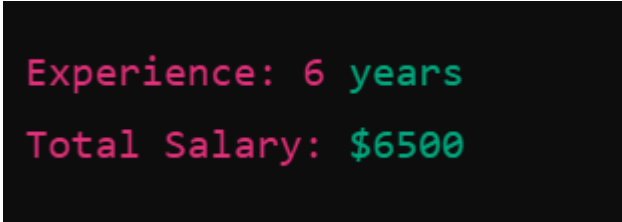
4. Employee Salary Calculator

Scenario:

A company calculates salaries based on **experience level** and **bonus criteria**.

Requirements:

- Ask for **years of experience**.
- Base salary: **$1000 per year of experience**.
- If **experience > 5 years**, apply a **bonus of $500**.
- Use an **arrow function** for salary calculation.
- Display the **total salary** using alert().

Output:

```
Experience: 6 years

Total Salary: $6500
```

5. String Manipulation Challenge

Scenario:

A company stores **employee names** but wants them in **uppercase** for official records.

Requirements:

- Take **a name as input** (prompt()).
- Convert it to **uppercase** and **lowercase**.
- Replace spaces with - (hyphen).
- Extract the **first three letters**.
- Display all outputs using console.log().

Output:

```
Input: John Doe

Uppercase: JOHN DOE

Lowercase: john doe

Formatted: John-Doe

First 3 Letters: Joh
```