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**Semester:** 5th semester

# LAB REPORT 5

# WEB TECHNOLOGIES

# ES6+ Features

# Institute of Space and Technology

**Submitted to:** Miss Maryam

- **Task 1** – Template Literals: Create a program that takes a user's name, age, and favorite hobby and prints them using template literals.

```
> // Ask the user for input
  let name = prompt("Enter your name:");
  let age = prompt("Enter your age:");
  let hobby = prompt("Enter your favorite hobby:");

  // Print the result using template literals
  console.log(`Hello ${name}! You are ${age} years old and your favorite
  hobby is ${hobby}.`);

  Hello Ariba! You are 18 years old and your favorite hobby is          VM118:7
  playing.
<· undefined
```

- **Task 2** – Arrow Functions: Write an arrow function that takes two numbers and returns their sum, difference, and product.

```
> // Arrow function that takes two numbers and returns sum, difference, and
  product
  const calculate = (num1, num2) => {
    const sum = num1 + num2;
    const difference = num1 - num2;
    const product = num1 * num2;

    return `Sum: ${sum}, Difference: ${difference}, Product: ${product}`;
  };

  // Ask user for input
  let a = Number(prompt("Enter first number:"));
  let b = Number(prompt("Enter second number:"));

  // Display result in console
  console.log(calculate(a, b));

  Sum: 6, Difference: 0, Product: 9                                     VM125:15
```

- **Task 3** – Spread and Rest: Merge two arrays of fruits using spread. Use rest to collect and print any number of fruit names.

```javascript
> // Spread operator example: merging two arrays
  const fruits1 = ["Apple", "Banana", "Mango"];
  const fruits2 = ["Orange", "Grapes", "Pineapple"];

  // Merge both arrays using spread (...)
  const allFruits = [...fruits1, ...fruits2];
  console.log("Merged Fruits:", allFruits);

  // Rest operator example: collecting multiple fruit names
  const showFruits = (...fruits) => {
    console.log("Fruits you entered:", fruits);
  };

  // Calling the function with multiple arguments
  showFruits("Kiwi", "Peach", "Strawberry", "Guava");
```

```
  Merged Fruits:                                          VM129:7
  ▶ (6) ['Apple', 'Banana', 'Mango', 'Orange', 'Grapes', 'Pineapple']

  Fruits you entered:                                    VM129:11
  ▶ (4) ['Kiwi', 'Peach', 'Strawberry', 'Guava']

  ‹· undefined
```