

ICT Assignment

Task 1: Variables and Data Types

1. Declare a variable to store your name and log it to the console.
2. Declare a variable to store your age and log it to the console.

```
ictlab > javas > JS task1.js > ...
```

```
1 let name = "Jawad ali"
2 console.log(name);
3 let age = "18"
4 console.log(age);
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

SEARCH ERROR

SQL HISTORY

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```
PS C:\UNI ASSIGNMENT\ictlab\javas> node task1.js
Jawad ali
18
PS C:\UNI ASSIGNMENT\ictlab\javas> 
```

Task 2: Basic Arithmetic

1. Create two variables for numbers and perform addition, subtraction, multiplication, and division. Log the results to the console.

```
ictlab > javas > JS task2.js > ...
1  let num1 = 10;
2  let num2 = 5;
3
4  let sum = num1 + num2;
5  let difference = num1 - num2;
6  let product = num1 * num2;
7  let quotient = num1 / num2;
8
9  console.log("Sum: " + sum);
10 console.log("Difference: " + difference);
11 console.log("Product: " + product);
12 console.log("Quotient: " + quotient);
13
```

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PS C:\UNI ASSIGNMENT\ictlab\javas> node task1.js
Jawad ali
18
PS C:\UNI ASSIGNMENT\ictlab\javas> node task2.js
Sum: 15
Difference: 5
Product: 50
Quotient: 2

Task 3: Conditional Statements

1. Write a function that takes a number as an argument and logs whether it is even or odd.

```
ictlab > javas > JS task3.js > ...
1  function checkEvenOdd(number) {
2      if (number % 2 === 0) {
3          console.log(number + " is even");
4      } else {
5          console.log(number + " is odd");
6      }
7  }
8
9  checkEvenOdd(7); // Example: 7 is odd
10
```

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PS C:\UNI ASSIGNMENT\ictlab\javas> node task3.js
7 is odd
PS C:\UNI ASSIGNMENT\ictlab\javas>

Task 4: Arrays

1. Create an array of fruits and log the first and last fruit in the array.

```
ictlab > java > JS task4.js > ...
1  let fruits = ["Apple", "Banana", "Mango", "Orange", "Pineapple"];
2
3  console.log("First fruit: " + fruits[0]);
4  console.log("Last fruit: " + fruits[fruits.length - 1]);
5
```

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PS C:\UNI ASSIGNMENT\ictlab\java> node task4.js
First fruit: Apple
Last fruit: Pineapple

Task 5: Loops

1. Write a loop that counts from 1 to 10 and logs each number to the console.
2. Modify the loop to log only even numbers between 1 and 10.

```
ictlab > javas > JS task5.js > ...
1  for (let i = 1; i <= 10; i++) {
2    if(i % 2 == 0)
3    {
4      console.log(i);
5    }
6  }
```

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PS C:\UNI ASSIGNMENT\ictlab\javas> node task5.js

2
4
6
8
10

```
ictlab > javas > JS task5.js > ...
1  for (let i = 1; i <= 10; i++) {
2    console.log(i);
3  }
```

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PS C:\UNI ASSIGNMENT\ictlab\javas> node task5.js

1
2
3
4
5
6
7
8
9
10

Task 6: Functions

1. Write a function that takes two numbers as arguments and returns their sum.
2. Write another function that takes a string and returns its length.

```
ictlab > javas > JS task6.js > ...
1  function stringLength(str) {
2      return str.length;
3  }
4
5  console.log(stringLength("Hello World"));
6
```

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PS C:\UNI ASSIGNMENT\ictlab\javas> node task6.js
11

```
ictlab > javas > JS task6.js > ...
1  function addNumbers(a, b) {
2      return a + b;
3  }
4
5  console.log(addNumbers(10, 20));
6
```

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PS C:\UNI ASSIGNMENT\ictlab\javas> node task6.js
30

Task 7: Objects

1. Create an object to represent a car, with properties for make, model, and year. Log the entire object to the console.

```
ictlab > javas > JS task7.js > ...
1  let car = {
2      make: "Toyota",
3      model: "Corolla",
4      year: 2020
5  };
6
```

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PS C:\UNI ASSIGNMENT\ictlab\javas> node task7.js
{ make: 'Toyota', model: 'Corolla', year: 2020 }

Task 8:

Create a webpage that prompts the user for their name and displays an alert with a greeting.

```
ictlab > javas > <> task8.html > ...
 1  <!DOCTYPE html>
 2  <html lang="en">
 3  <head>
 4    <meta charset="UTF-8">
 5    <meta name="viewport" content="width=device-width, initial-scale=1.0">
 6    <title>Task 8</title>
 7  </head>
 8  <body>
 9    <script>
10      let userName = prompt("Please enter your name:");
11      alert("Hello " + userName + "!");
12    </script>
13  </body>
14  </html>
```


Task 9:

Create a webpage that prompts the user for their name and age, then displays an alert with a personalized message indicating whether they are an adult or a minor.

```
ictlab > javas > <> task9.html > html > body > script
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta name="viewport" content="width=device-width, initial-scale=1.0">
6      <title>Task 9</title>
7  </head>
8  <body>
9      <script>
10         let userName = prompt("Please enter your name:");
11         let userAge = prompt("Please enter your age:");
12
13         if (userAge >= 18) {
14             alert("Hello " + userName + ", you are an adult.");
15         } else {
16             alert("Hello " + userName + ", you are a minor.");
17         }
18     </script>
19 </body>
20 </html>
```

Task 10:

Create a webpage that prompts the user for their feedback on a product and displays an alert with their feedback. Display an alert that says, "Thank you for your feedback: [feedback]."

```
ictlab > java > <> task10.html > ...
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta name="viewport" content="width=device-width, initial-scale=1.0">
6      <title>Task 10</title>
7  </head>
8  <body>
9      <script>
10         let feedback = prompt("Please provide your feedback on the product:");
11         alert("Thank you for your feedback: " + feedback);
12     </script>
13 </body>
14 </html>
15
```