**Java Script Questions – Function Concept**

**1. Ordinary Function**

Write a function findLargest(num1, num2, num3) that takes 3 number and returns the largest value. Use ternary operator to find the result largest among 3 numbers.

**2. Function Overloading (by number of arguments using arguments.length)**

Write a function welcome() that:

* If called with **1 argument**, prints "Welcome To <name>".
* If called with **2 arguments**, prints "Welcome To <firstname> <lastname>".
* If called with 3 **arguments**, prints "Welcome To <firstname> <middlename> <lastname>".
* If called with no arguments, prints "Hello, Welcome".

**3. Function Overloading (by type of arguments)**

Write a function calculate(x, y) that:

* If both arguments are **numbers**, return their sum.
* If both are **strings**, return their concatenation.

**4. Function with Object as Parameter**

Write a function printStudent(student) where student is an object with name, age, total, result and grade.  
The function should print the details in a formatted way.

**5. Function with Rest Operator (...args)**

Write a function findMax(...numbers) that accepts any number of arguments and returns the largest one.

**6. Arrow Function**

Write an arrow function to pass the radius as parameter and find out the area of a circle and test it

**7. Function Expression**

Write a function expression assigned to a variable isPrime that checks whether a number is prime or not prime.

**8. Recursion Example**

Write a function naturalSum() that returns the sum of natural numbers from 1 to given number.

**9. Default Parameters with Arrow Function**

Write an arrow function to pass the radius and height of the cone and calculate the volume of the cone. Test it with and without passing a parameter.

NOTE: Example for default parameter with arrow function:

greet = (name = "Guest") => "Hello " + name;

**10. Combining Rest + Arrow Function**

Write an arrow function sumAll = (...nums) => {} that adds all the numbers passed to it.  
Call it with sumAll(10,20,30,40,50,60,70) and print the result.