JS Assignment

1. Practice all code given in attached JS file and write your notes with all code snippets and upload it on exam server.
2. What is JSON? Explain with example?
3. How do you practice JSON?
4. What is JSON payload?
5. Is JSON structured or unstructured data?
6. Can JSON store arrays?
7. What is IIFE? Explain with example.
8. Why global variables are considered bad in JS?
9. Is JS functional scope. Explain with suitable examples.
10. What spread and destructuring in JS. Explain with code examples.
11. What are Rest parameters inJS? Explain
12. Explain arrow function in JS with examples.
13. What rae Template Literals in JS? Explain
14. Explain Hoisting in JS with proper explanation and examples.
15. What is 'use strict' in JS?
16. Explain Closures in JS
17. Write and explain forEach and map method with JS arrays.
18. What is a Callback method in JS? Explain
19. Compare var, let and const keywords in JS.
20. Explain promises in JS with suitable examples and explanation.
21. What is a proxy in JS? Explain
22. Explain async/await with relevant code. Compare it with promise.
23. Write and explain asynchronous callback example in JS.

## TypeScript Assignment

1. Practice and run the codes given in attached Typescript file.
2. Compare argument passing (in function) in Typescript and Javascript.
3. How can you pass variable number of arguments in Typescript? Explain with example
4. Can we give default value to optional argument in Typescript. Explain
5. Write a function (with types) which takes two integer parameters and returns an integer. Function has to return the sum of 2 parameters. Call the function and check the result.
6. Explain Implicit typing with example.
7. Create a Typescript class named Employee with fName, lName, salary as instance variables. It should contain a parameterized constructor and a method getFullName. Make two Employee objects and call getFullName method
8. Can functions be overloaded in Typescript? Explain
9. Make an example of overriding in Typescript.
10. Make an interface and its classes in Typescript and use them polymorphically.
11. What id Duck Typing? Explain with example.
12. Create a class to demonstrate the member visibility - private, protected and public
13. What are readonly modifiers? Explain with example.
14. What is the purpose of Generic in Typescript. Explain
15. Explain some of the compiler arguments in Typescript.
16. What is the purpose of tsconfig.js file? Explain
17. Explain npm init.