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What are interfaces in typescript ?	
Ans: interfaces in typescript are similar to the interfaces in many of Here Objects don't have to explicitly implement interfaces as you widefine the expected properties so that the type checker can verify a being used.	ould in C# or Java. Instead, interfaces
1	
How do classes in typescript implements interfaces ?	
Ans: Typescript classes implements the interfaces similarly as they implements keyword	are implemented in c#/ java. By using
typescript classes implements the interfaces.	
Ex:	
class Sample implements ISample{ //your code here	
}	
2	
What are optional properties ?	
Ans: Optional properties can be defined by adding a question mark the property	(?) after the property name when defining
in the interface. This is the way of expressing property that may be	present, but it still treats that object as that
type if optional property is missing.	
3	
What are Function Types ?	
Ans: In addition to describing an object with properties, interfaces a	are also capable of describing function
To describe a function type with an interface, we give the interface declaration	a call signature. This is like a function
with only the parameter list and return type given. Each parameter and type.	in the parameter list requires both name
4	
what are hybrid types ?	
Ans: Objects which can operate both as function and as an object a	re known as Hybrid Types.
5	
_	
What are indexable interfaces ?	

Ans: Interface can be used to describe that indexing into an object always produces values of a certain type. You can define
the array in the iterface and then implement that in the class.
6
How do you extend an inteface into another interface in typescript ?
Ans: Like wise we know that we can extend an interface to a class, similarly an interface can also extend another, it's
similar to what we do in many programming languages like c#/ java.
Ex:
interface If1{
add(a:number,b:number): number
}
inteface If2{
sub(a:number,b:number): number
}
interface IArithmeticOperations extends If1,If2{
}
What are rest paramters ?
Ans: It's nothing but grouping multiple parameters into a single variable. By using () three dots we can
achieve this. And this technique is also called as Spread In JavaScript, you can work with the arguments directly using the
arguments variable that is visible inside every function body.
Ex:
function cample(a) numberhinumber[]); number[
function sample(a: number,b:number[]): number{ //your code here
}
console.log(sample(10,20,30,40));
Here in this example a will be 10, and the rest values 20,30,40 will comes under b which is an array.
8
How to do function overloading in tyepscript ?
Ans: Actually JavaScript does not allow overloading, so TypeScript cannot generate multiple definitions of the
same function differing only by their signature. TypeScript does not accept the two different constructors too(constructor
amening only by their dignature, typesoript does not decept the two different constituctors tool constituctor

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overloading)

But if you still want to do function overloading, we need to supply multiple function types for the same function as a list of overloads.

This list is what the compiler will use to resolve function calls.

```
Ex:
```

What is duck typing in typescript?

Ans:

 $1. \ The \ core \ principle \ of \ type-checking \ focussing \ on \ the \ shape \ that \ values \ have \ is \ called \ as \ duck-typing \ (or)$

structural-subtyping.

2. In TypeScript, interfaces fill the role of naming these types, and are a powerful way of defining contracts within your code as well as contracts with code outside of your project.

```
Ex:
```

```
interface ISample{
    name :string;
}

function printLabel(sample: ISample){
    console.log(sample.name);
}

let myObj = {age: 41, name: "Sandeep Soni"};
printLabel(myObj);
```

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