What The Heck is This Keyword!	This Keyword [Basic Advance] Interview Question List!	
COUNT: 17			
Question	Level	Method Invocation Type	Solution
01. let arr = [1, 2, 3]; arr.push(function sum () { console.log(this) }} arr[3]();	Bosic	Method Invocation Type	The arr object itself
02. const income = { skills: 100, monthly () { console.log (this.skills + 100) }, yearly: () => console.log(this.skills + 100) } income.monthly(); income.yearly();	Basic	Method Invocation Type And Arrow Function Type	Output: 200, NaN
03. class Animal { static getName(name) { this.name = name; console.log(this) return this.name; } constructor(name = "Tiger") { this.name = name } } const animal = new Animal("Lion"); console.log(animal.getName("Shark"))	Advanced	Classes and How Static Method works inside a class ?	Output: Error ! [TypeError] Reason: When you create a statc method on a class. It's available only on Class itself. Meaning those static methods won't be available on class instance!!! You can call it by this only i.e ClassName.methodName () Here in the example, it will be like Animal.getName("Shark") And this in this case will be Class Animal.
04. function User (firstName, lastName) { this.firstName = firstName; this.lastName = lastName; } User.getFullName = function () { console.log(this); return `\$(this.firstName) \${this.lastName}` } let user = new User("Hare", "Krishna") user.getFullName(); User.getFullName();	Advanced	Constructor Invocation Type	Output: TypeError, "undefined undefined" Reason: The reason is same as above question, The method is made available only on function User not on it's instance. Hence the first wil result in TypeError. Whereas in second case, this will point to function User whole defination hence resulting in undefined undefined. How to Fix it? Solution: User.prototype.getFullName = function () {
04. let obj = { user: 'Sham', getName: function() { console.log (this.user) } } const getData = obj.getName; getData();	Intermediate	Function Invocation Type	Output: undefined It will point to this window or undefined in strict mode

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Regional of Interior County (Fig. 2) Action of the collection function when the County of the County of County (Fig. 2) Action	email: "abc@tokopedia.com", updateEmail: email => { this.email = email; } } user.updateEmail("xyz@gmail.com");	Intermediate		Output: abc@tokopedia.com Reason: Arrow function doesn't have it own this	
Intermediate Inte	<pre>let group = { title: "Our Group", students: ["John", "Pete", "Alice"], showList() { this.students.forEach(function(student) { console.log(this, this.student); }); } }</pre>	Intermediate	In callback And Method Invocation	Reason: As inside the callback function which is for Each it's a function invocation type. Hence this can be either window or undefined.	
Let user = { firstName: Karan', soyHill (console.log(this) } } SetTimeout(user.sayHi, 1000); Alternatively, we can have do Intermediate Function Invocation Type And Method Invocation Type SetTimeout(function () { user soyHill () { console.log(this) } } SetTimeout(function () { user soyHill () { console.log(this) } } Advance Method Invocation Type Method Invocation Type Output: { firstName: "Ironman", soyHill function () { user.sayHill () >> user.sayHill () >> user.sayHill () 1,000); Advance Method Invocation Type Method Invocation Type Method Invocation Type Advance Method Invocation Type Method Invocation Invocation Type Method Invocation Type	07. let group = { title: "Our Group", students: ["John", "Pete", "Alice"], showList() { this.students.forEach(student => console.log(this) }; };	Intermediate	Arrow Function Type	Reason: As arrow function doesn't have it's own this, they will take	
let user = { firstName: 'Batman', soyHi() { console.log(this); } }; setTimeout(() >> user.sayHi(), 1000); user = { firstName: 'Ironman', soyHi() { console.log(this)} }	let user = { firstName: "Karan", sy Hi() { console.log(this) } } setTimeout(user.sayHi, 1000); Alternatively, we can have do let user = { firstName: "Karan", sayHi() { console.log(this) } }	Intermediate	Type And Method Invocation	Reason: The callback fucntion will treat user.sayHi as function invocation instead of method invocation. NOTE: this is won't affected in setTimeout it will always point to	REASONING
	<pre>let user = { firstName: "Batman", sayHi() { console.log(this); } }; setTimeout(() => user.sayHi(), 1000); user = { firstName: "Ironman", sayHi() { console.log(this) }</pre>	Advance	Method Invocation Type	Reason: Simply we changed the value of user. NOTE: In setTimeout we are not passing the reference of user	

10			Out out Windows his at the constitution and and the defect on de-	
10. function func () { console.log(this); } let user = { gun: func.bind(null)	Advance	Bind Invocation	Output: Window object in non-strict mode and null in strict mode; Reason: The value of this can't be string/number or null in non strict mode. In strict mode it can have any value.	
J; user.gun(); If you use 'use strict' at the top of the function It will become this = null!				
11. let user = {			Output: user Object Peopor: We are simply accessing the sould function of an object	
firstName: "Karan", sayHi () { console.log(this) } }	Beginner	Method Invocation	Reason: We are simply accessing the sayHi function of an object We are not using bind invocation as bind invocation requires the returned bind function to be called. i.e user.sayHi.bind{{name: 'negi"}}(
user.sayHi.bind({name: 'negi"}) user.sayHi.bind({name: 'abc"}) user.sayHi()				
12.			Output: Undefined	
function fun () { console.log(this.number) }; fun.number = 100; let bindFun = fun.bind({nome: 'obc', number: 100 })	Intermediate	Bind Func Invocation	Reason: The bind function returns a new function, Hence number property was not existed there.	
console.log(bindFun.number);				
13. function sayHi (a, b, c) { console.log(a, b, c) }; let user = { name: 'Js' };			Output: "Hello", "World", undefined And "P", "a", "n" And { '0': 1, '1': 2, '3': 3, length: 3 } undefined undefined	
sayHi.apply(user, { 0: "Hello", 1: "World", length: 2 }, { 0: 'Abc", 1: "Xyx", 2: "Hi", length: 3 }) sayHi.call(user,["Panda"]);	Advance	Apply Function Works	Reason: apply function takes/accepts only array-like args !! Hence object mentioned in array-like form is acceptable here It will consider only 1st argument after this is passed as actual argument. The rest are ignored	
sayHi.call(user,[{0:1 , 1: 2, 3:3, length:3}])				
14. console.log([].join.call({0: 1, 1: 2, length: 3}))	Advance	Method Borrowing	Output; 1,2;' Reason: join method can accept array-like object/ iterable when called with call. Here the length is 3, Hence extra comma is at the end.	
15. function test () { console.log(this, typeof this) } test.coll(") How to preserve this	Advance	How this behaves in Strict version	Output: String { length: 0 } , "object" Reason: If this is not an object i.e if it's primitive type, then this is ignored. If you want to preserve this you should have used 'use strict' at the top of the function.	
now to preserve this				
16. class User { constructor(name) { this.name = name; } sayHi() {	Advance	Constructor Function	Output: User { }, { sayHi: f sayHi(), constructor: class User }, TypeError: User.sayHi is not a function Reason: When invoked with new , this belongs to the Class Object	
console.log(this) } let user = new User("karan") user.sayHi(); User.prototype.sayHi(); User.sayHi();	Actualice	Invocation		

17. class Button { constructor(value) { this.value = value; } click = () => { console.log(this, this.value); } }	Advance	Class Contructor Function Invocation	Output: Button { click: f click(), vaule: "hello" } , "hello" Reason: Since the anonymous function has been passed in setTimout, and we know that anonymous function doesn't have it's own this, it will take from it's outer scope. The outer scope here is the Class Button function, Hence the value will point to "hello"	
let button = new Button("hello");				
setTimeout(button.click, 1000);				