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(36) function Car() { this make = 'tata' 3 return Smake: 'Kia' }; const my Car = new Car (); console. log (my (or make);

A) 1. Function Def ('Car'): ->

- · The 'Car' function is a Constructor function. In JSg construction function are used to execute new objects.
  - · Inside the 'Car' function:
  - · 'this make = 'tata', is meant to set a property 'make' on the new Object being created.
  - · The 'neturn & make: 'Kia' &; Statement explicitly return an Object with 'make' set to 'Kia'.

2. Object Creation ( new Car ()'):

- · When we call 'now Cor()', it creates a new Object.
- · Noounally , 'this make = 'tata'; Would set the make' property of this new object to 'tata'.
- · However, since the constructor function explicitly return an Object &make: 'Kia' &, this object is returned instead of the one that was implicitly created by 'new';

3. Logging the Object · The 'my Cari variable now holds the Object '& make: 'Kia'} because that's what was returned from the constructors · 'console. Dog (my care make); will Dog 'Kia' because the di 'make' property of the returned Object is 'Kia'. 0 Therefore, the output will be -· Kia 1 Key Birts. · Default Object Oscation -> Normally 9 a constructor function creates a new object g and this refers to that now Object. Explicit Retwor -> If a constructor function explicitly retwery on Object, that Object will be returned instead of the one created by 'new'. If nothing 0x a non-Object (e.g.) a String or a number) is returned; the default Object is used. - $(37) (() \Rightarrow \{$ let x = (y = 10); \_ 100 f) (); console. Log (type of x); A) 1. Immediately Invoked Function Expression (IIFE) -> 0 · (() > {---})(); is an immediately Invoked Function Expression (IIFE). It's a function that is defined and then 9 40 immdiately executed. 9

- 2. Inside the IIFE -
  - · Inside this IIFE

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let x= (x=10);

- · 'y = 10' assigny the value '10' to y'. since 'y' is not declared with 'let', 'const', 0x 'var', it becomes a global Variable.
  - · 'X' is declared with let and assigned the value of 'Y = 10', so 'X' becomes '10' within the IIFE'S Scope.
- 3. Outside the IIFE
- · After the IIFE has suing the variable 'X' defined inside it is not accessable outside because it was declared with 'let' which is block-scoped.
- · Therefore, 'x' does not exist in global scope.
- 4. Logging 'typeof x':
  - · When we try to log 'typeof x' outside the IIFE, 'x' is not defined in the global scape.
    - · In JS, when we check the type of an undeclared variable using 'type of', it does not throw an error but returns "undefined".
  - · 'type of 'operator is designed in a way that it does not throw a 'Reference Evozor' ever if the variable being checked is not declared in any scape (global or local) Instead, it return \"undefined"!
- It is a sefety feature of JS to allow us to chick if variable is defined on not without cousing our script to crash.

Therefore, the output will be-Undefined Note -> · conjole. log (x) -> Reference Evizor · console. log (typeof x) - Undefined Note > . courge. Jog (typeof y) - number (38)  $(() \Rightarrow \emptyset$ let x = 103 b) () 3 (()⇒ { let x = 103 3)(); counage. god (Albert X)? A) · The 'x' variable in both IIFEs is block - Scoped, meaning it only exists within the function and is removed afterward. · Outside of the IIFEs, there is no 'x' variable in the global scope. Therefore, the output will be \_\_\_ · Undefined

(39) let x = 1003  $f \Leftrightarrow (f)$ 99999 Var X = 20; ٤()(﴿ Console. 20g(x)3 A) . 'let' Creater a block-scoped Variable (or memory inside 'script'). 3 · Var' creates a function-scope inside function. 3 The 'x' declared with 'var' inside the IIFE 3 does not affect the 'X' declared with let outside 1 the IIFE because they are in different scopes. B Therefore, the output will be -• 100 -(40) Console. log (1 true - true); 3 -Ans. The !! operator is a logical NOT operatory which 3 inverty the boolean value. . 'I true becomes 'false'. 4 · In JS, 'false' is coerced to 'O', and 'true' is coerced to 1' when performing withematic operations. -Therefore, the output will be -> · -1

(41) console log (true + "10") 3 Ans. The 't' before the String "10" is a unary plus operator which attempts to convert the String into a number. . 110" is converted to the number 10: · In JS, the boolean 'true is coerced to the number 1' When used in arithmetic operations. · SO, 'true + 10' becomes '1 + 10'. Therefore, the output will be -· 11 For, more Questions, visit -> gittub. -> rojestýha 2000 

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