function() {

var a = b = 5;

})();

console.log(b);

What will be printed on the console?

1. What are variables?
2. What are functions and discuss the various types of functions.
3. List the different data types that are used in javascript.
4. What kind of operators are used in javascript.
5. What are objects in javascript ? Give 2 examples.
6. Discuss three ways to create an object in the javascript.
7. Why we use toString() and valueOf() method?
8. What is a Javascript math object ? Give examples to demonstrate.
9. List the use of following method:

pop(), push(), splice(), slice(), sort(), reverse()

1. What are global and local variables? Write a program to demonstrate global and local variables.

a. Have a function add( ). Increment the value of a first and then calculate the sum of a and b.

b. Have a function sub( ). Decrement the value of a first and then alert a-b.

c. Have a function multiply( ). Give a local variable a=10 and then calculate the sum, subtract, divide, multiply and modulus.

13. Here is the declaration of a function.

functionsetValue(fName,lName,age){

}

functionsetCustInfo(name){

alert(“The last name is set as: ”+name);

}

functiondisplayCustInfo(name){

alert(“First Name is displayed as:”+name);

}

How would show the following output in alert boxes?

i. The name is set as: Bruce

ii. Name is displayed as: Wayne

Show at least 2 ways to get the above output.

14. Create a function that would check the passenger age. Take the input from the user using the prompt command in your function – copy paste this statement

var age=prompt("Please enter your age");

a. If the passenger is 2 years or below then alert No charge.

b. If the passenger is above 2 years and below 14 then alert 10% discount

c. If the passenger is above 14 and below 55 then alert Regular price

d. If the passenger is above 55 then 20% discount

**15.** Write a program to prompt the user to enter a day (like Monday, Tuesday, Wednesday, etc). Based on the value entered by the user, display a special dish. For example, if the user enters Monday then alert "Mondays, We serve Pasta". If the user enters Friday then alert "Fridays, we serve Tacos". Usi.g switch .

16. Write a program to print numbers from 21 to 63 and also at the end print the sum of all these numbers.

17. If I enter an even number, I want next 10 even numbers to be printed. If I enter an odd number, I want next 10 odd numbers to be printed.

18. Create an array with Monday, Tuesday,Wednesday,Thursday, Friday and Saturday and console.log individually.

Ask for a prompt, if I enter ‘Monday’, in console display- Tuesday’,’Wednesday’,’Thursday’,’Friday’and ‘Saturday.

If I enter ‘Tuesday’,in console display ’Wednesday’,’Thursday’,’Friday’and ‘Saturday’.

If I enter ‘Wednesday’,in console display ’Thursday’,’Friday’and ‘Saturday’.

If I enter ‘Thursday’ , in console- ‘Friday’and ‘Saturday’.

If I enter ‘Friday’, in console- ‘Saturday’.

If I enter ‘Saturday,in console –‘Sunday’.

If I enter ‘Sunday’, in console- it is the last day of the week.

**19.**  Write a program to return the length of a string "Pneumonoultramicroscopicsilicovolcanoconiosis".

20. Write a program to convert the above string to Upper case

21. Write a program to convert the above string to Lower case

22. . Consider the string “I like this product; I hate this product; This product is worth buying; I don’t agree with the above user”. Now break this whole string into pieces wherever you see “;”. Now print the broken down pieces one after the other in console.

23. Have an image and two buttons, PREV and NEXT. Have 10 images in an array. When you click on NEXT, the next picture should display and when you click on PREV, the previous image should display.

24. Have two divs side by side - lets call them "Form Div" and "View Div".

a. The first div - "Form Div" should have a simple form with fields - first name, last name, gender, state (select box) and "Save" button.

b. The "View Div" should have a button called "EDIT" - but this button should be hidden by default.

c. When you click on the "Save" button, the user entered data should appear in the "View Div" - also the form input fields should be cleared out (should be empty).

25. Create one div, one text field, one button.

If I enter ‘black’ in text field (div border should be black)

If I enter ‘red’ in text field (div border should be red)

If I enter ‘anything else’ (for eg: yellow or green) it should alert- “pleases enter a valid color”.

26. Have one radio button and one checkbox. When the radio button is checked, display as ‘checked’ . When the ‘checkbox’ is checked , display as ‘checked’. Have one drop-down list . Whatever, you select in ‘drop-down’, should appear on the right side.

27. now use a math object display a random quote every 10 sec - instead of sequence.

28. Create new object with 4 properties and 3 methods. Methods are addition, mutiplication and division. These methods should use 2 properties to perform the desired action.