**IIG Varsity**

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Test: **IIG-UI-002**, Time: **2 hours**, Date: **30-08-2024** \_Ananya Dey\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Section-1** (Answer all questions) Full-Mark: 60

Rename this file to Test-IIG-001 (30-08-2024)-yourname.docx

Upload the program to the following GitHub link:

<https://github.com/milandas63/Intern-UI-2024-07-19/tree/main/Test>

1. Count the number of occurrences of each character in a given string?

Example:

Hello World Students Allowed Holocaust

D = 1 A - 1 A - 1

E - 1 D - 2 C - 1

H - 1 E - 2 H - 1

L - 3 L - 1 L - 1

O - 2 N - 1 O - 2

R - 1 O - 1 S - 1

W - 1 S - 2 T - 1

T - 2 U - 1

U - 1

W – 1

let str = 'AnanyaDey';

let result = {};

for(let i = 0;i< str.length;i++)

{

  let ch = str.charAt(i);

  if(!result[ch])

  {

    result[ch] =1;

  }

  else

  {

    result[ch]+=1;

  }

}

console.log("The occurrence of each letter in given string is:",result);

1. Write a program to convert all digits in a number to words?

Example: 12345 = One Two Three Four Five

03786 = Zero Three Seven Eight Six

72913 = Seven Two Nine One Three

function test(n)

{

    if (n < 0)

        return false;

    single\_digit = ['', 'One', 'Two', 'Three', 'Four', 'Five', 'Six', 'Seven', 'Eight', 'Nine']

    double\_digit = ['Ten', 'Eleven', 'Twelve', 'Thirteen', 'Fourteen', 'Fifteen', 'Sixteen', 'Seventeen', 'Eighteen', 'Nineteen']

    below\_hundred = ['Twenty', 'Thirty', 'Forty', 'Fifty', 'Sixty', 'Seventy', 'Eighty', 'Ninety']

    if (n === 0) return 'Zero';

    function translate(n) {

        let word = "";

        if (n < 10) {

            word = single\_digit[n] + ' ';

        } else if (n < 20) {

            word = double\_digit[n - 10] + ' ';

        } else if (n < 100) {

            let rem = translate(n % 10);

            word = below\_hundred[(n - n % 10) / 10 - 2] + ' ' + rem;

        } else if (n < 1000) {

            word = single\_digit[Math.trunc(n / 100)] + ' Hundred ' + translate(n % 100);

        } else if (n < 1000000) {

            word = translate(parseInt(n / 1000)).trim() + ' Thousand ' + translate(n % 1000);

        } else if (n < 1000000000) {

            word = translate(parseInt(n / 1000000)).trim() + ' Million ' + translate(n % 1000000);

        } else {

            word = translate(parseInt(n / 1000000000)).trim() + ' Billion ' + translate(n % 1000000000);

        }

        return word;

    }

    let result = translate(n);

    return result.trim() + '.';

}

1. Flip/Invert/Toggle the case of all characters in a given String?

Example:

Original: Quick Brown Fox Jumps Over The Lazy Dog

Inverted: qUICK bROWN fOX jUMPS oVER tHE lAZY dOG

function toggleChars(str)

{

    for (let i = 0; i < str.length; i++)

    {

        if (str[i] >= 'A' && str[i] <= 'Z')

            str[i] =  String.fromCharCode(str[i].charCodeAt(0) + 'a'.charCodeAt(0) - 'A'.charCodeAt(0));

        else if (str[i] >= 'a' && str[i] <= 'z')

            str[i] =  String.fromCharCode(str[i].charCodeAt(0) + 'A'.charCodeAt(0) - 'a'.charCodeAt(0));

    }

}

let str = "AnaNYadEy".split("");

toggleChars(str);

document.write("String after toggle ");

document.write((str).join(""));

**Section-2** (Answer all questions) Mark: 40

Colour the right answer to blue colour

1. Which type of JavaScript language is \_\_\_
2. Object-Oriented
3. Object-Based
4. Assembly-language
5. High-level
6. Which of the following is the correct output for the following JavaScript code:

1. var x=5, y=1

2. var obj = {x:10}

3. with(obj) {

5. alert(y)

6. }

(A) 1

(B) Error

(C) 10

(D) 5

1. Which one of the following also known as Conditional Expression?
2. Alternative to if-else
3. Switch statement
4. If-then-else statement
5. immediate if
6. Among the following given JavaScript snipped codes, which is more efficient:

Code A

1. for(var number=10;number>=1;number--) {

3. document.writeln(number);

4. }

Code B

1. var number=10;

2. while(number>=1) {

4. document.writeln(number);

5. number++;

6. }

1. Code 1
2. Code 2
3. Both Code 1 and Code 2
4. Cannot Compare
5. In JavaScript, what is a block of statement?
6. Conditional block
7. block that combines a number of statements into a single compound statement
8. both conditional block and a single statement
9. block that contains a single statement
10. When interpreter encounters an empty statement, what it will do:
11. Shows a warning
12. Prompts to complete the statement
13. Throws an error
14. Ignores the statements
15. The "function" and " var" are known as:
16. Keywords
17. Data types
18. Declaration statements
19. Prototypes
20. In the following given syntax of the switch statement, the Expression is compared with the labels using which one of the following operators?

1. switch(expression) {

3. statements

4. }

1. ===
2. Equals
3. ==
4. equals
5. What will happen, if the following JavaScript code is executed?

1. var count =0;

2. while (count <10) {

4. console.log(count);

5. count++;

6. }

1. An error is displayed
2. An exception is thrown
3. The values of count variable are logged or stored in a particular location or storage
4. The value of count from 0 to 9 is displayed in the console
5. Which of the following is the correct output for the following JavaScript code:

1. int x=8;

2. if(x>9) {

4. document.write(9);

5. } else {

8. document.write(x);

9. }

1. 9
2. 0
3. 8
4. Undefined
5. Which of the following is the correct output for the following JavaScript code:

1. var grade='C';

2. var result;

3. switch(grade) {

4. case'A':

5. {

6. result+="10";

7. break;

8. }

9. case'B':

10. {

11. result+=" 9";

12. break;

13. }

14. case'C':

15. {

16. result+=" 8";

17. break;

18. }

19. default:

20. result+=" 0";

21. }

22. document.write(result);

1. 10
2. 9
3. 8
4. 0
5. Which of the following is the correct output for the following JavaScript code:

1. var grade='D';

2. var result;

3. switch(grade) {

4. case'A':

5. result += "10";

6. case'B':

7. result += " 9";

8. case'C':

9. result += " 8";

10. case 'D':

11. result+=" 6";

12. default:

13. result+=" 0";

14. }

15. document.write(result);

1. 10
2. 6
3. 33
4. 0
5. Which of the following is the correct output for the following JavaScript code:

1. var x=3;

2. var y=2;

3. var z=0;

4. If(x==y) document.write(x);

5. elseif(x==y) document.write(x);

6. else document.write(z);

1. 3
2. 0
3. Error
4. 2
5. Which of the following is the correct output for the following JavaScript code:

1. var grade='Z';

2. var result;

3. switch(grade) {

4. case'A':

5. result+="10";

6. case'B':

7. result+=" 9";

8. case'C':

9. result+=" 8";

10. default:

11. result+=" 0";

12. }

14. document.write(result);

1. 10
2. 17
3. 18
4. 0
5. Which of the following variables takes precedence over the others if the names are the same?
6. Global variable
7. The local element
8. The two of the above
9. None of the above
10. Which one of the following is the correct way for calling the JavaScript code?
11. Preprocessor
12. Triggering Event
13. RMI
14. Function/Method
15. Which of the following type of a variable is volatile?
16. Mutable variable
17. Dynamic variable
18. Volatile variable
19. Immutable variable
20. Which of the following option is used as hexadecimal literal beginning?
21. 00
22. 0x
23. 0X
24. Both 0x and 0X
25. When there is an indefinite or an infinite value during an arithmetic computation in a program, then JavaScript prints\_\_\_\_\_\_.
26. Prints an exception error
27. Prints an overflow error
28. Displays "Infinity"
29. Prints the value as such
30. In the JavaScript, which one of the following is not considered as an error:
31. Syntax error
32. Missing of semicolons
33. Division by zero
34. Missing of Bracket