

Javascript Basic Assignments

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Part I

- Q1.WAP for /* Illustration of basic arithmetic operators*/**
- Q2. WAP for /* Illustration of the bitwise logical operators */**
- Q3. WAP for /* Illustration of Boolean logical operators*/**
- Q4. WAP for /* Use of comma operators*/**
- Q5. WAP for /*swap (interchange) two number using a temporary variable*/**
- Q6. WAP for swap (interchange) two numbers without using a temporary variables*/**
- Q7. WAP for /* find simple interest*/**
- Q8. WAP for /*compute surface area and volume of a cube */**
- Q9. WAP for /* convert given number in years, weeks and days (ignore lep year) */**
- Q10.WAP for /* calculate the sum and average of five numbers */**
- Q11. WAP for /* use of conditional operator */**
- Q12. WAP for /* leap year checking */**
- Q13. WAP for /* find smallest of three numbers */**
- Q14. WAP for /* find biggest of three number */**
- Q15. WAP for /* find summation of series $a + ar + ar^2 + \dots + ar^{(n-1)}$ */**

Q16. WAP for /* simulate a simple calculator */

Q17. WAP for /* Illustration of switch... case control structure

Input a number from 1-7 and write corresponding day of week */

Q18. WAP for /* find area of a triangle and its type */

Q19. WAP for /* find grade of a student */

Q20. WAP for /* print all combination of 3 digits 8/

Q21. WAP for /* find the roots of a quadratic equation */

Q22. WAP for /* calculate the area of either circle or rectangle or triangle depending upon the user's choice */

Q23. WAP for /* print first n natural numbers and their sum using while loop */

Q24. WAP for /* calculate the occurrences of positive number, negative numbers and zeros in a stream of data terminated by some specific value */

Q25. WAP for /* print first n natural numbers and their sum using do-while loop */

Q26. WAP for /* print first n natural numbers and their sum using for loop */

Q27. WAP for /* multiplication table of a given number */

Q28. WAP for /* print first n natural numbers in ascending / descending order */

Q29. WAP for /* count number of 1's in the binary of an integer */

Q30. WAP for /* convert centigrade temperature to Fahrenheit and vice versa */

Q31. WAP for /* print number of days in a month */

Q32. WAP for /* find GCD and LCM of two non negative numbers */

Q33. WAP for /* find the number and their sum between 100 and 200 which are divisible by 7 */

Q34. WAP for /* read n numbers iteratively and print biggest and smallest of these numbers */

Q35. WAP for /* find sum of even and odd number from 1 to n

*/

Q36. WAP for /* read 10 integer from the keyboard and print number of negative and positive integers */

Q37. WAP for /* check an integer for perfect square */

Q38. WAP for /* find all divisor of a positive integer */

Q39. WAP for /* sum of digits of a number and reverse it */

Q40. WAP for /* reverse a given integer and check it for palindrome */

Q41. WAP for /* print sum of first n even / odd numbers in ascending / descending order*/

Q42. WAP for /* print composite number between 1 to n */

Q43. WAP for /* determine all Pythagorean triplets in the range 1 to 100

A Pythagorean triplet is a set of three integer l, j, k, such that $\text{sqrt}(i) + (j) = \text{sqrt}(k)$ */

Q44. WAP for /* find the factorial of a number */

Q45. WAP for /* print the prime factor (s) of a positive integer */

Q46. WAP for /* check a number for perfect number*/

/* it is a number wich equals the sum of it's proper divisor

proper divisor are are the divisions excluding the number itself */

Q47. WAP for /* print prefect number upto a specific limit */

Q48. WAP for /* check a numbers for Armstrong

It is a number which equals the sum of it's digits */

Q49 WAP for /* Generate Armstrong numbers upto a specific limit */

Q50 WAP for /* Generate first n Fibonacci terms */

Q51. WAP for /* Generate Fibonacci terms upto a specific limit */

Q52. WAP for /* check a number for Fibonacci term */

Q53. WAP for /* check a number for prime

A number $P > 1$ is prime if it is not divisible by any integer from 2 integral part of its square root */

Q54. WAP for /* Generate first n prime numbers */

Q55. WAP for /* Generate primes upto a specific limit and print their number */

Q56. WAP for /* print the following pattern

1

1 2

1 2 3

1 2 3 4

1 2 3 4 5

----- */

Q57. WAP for /* print the following pattern

1

2 2

3 3 3

4 4 4 4

----- */

Q58. WAP for print the following pattern

1 2 3 4 5 6

1 2 3 4 5

1 2 3 4

1 2 3

1 2

1

Q59. WAP M for /* print the following

```

-----
6  5  4  3  2  1
5  4  3  2  1
4  3  2  1
3  2  1
2  1
1  */

```

Q60. WAP for /* print the following pattern

```

    *   *   *   *   *
      *   *   *   *
        *   *   *
          *   *
            *   *
              *
                */

```

Q61. WAP for /* print the following pattern

```

-----
1  2  3  4
1  2  3
1  2
1
1  2
1  2  3
1  2  3  4

```

Q62. WAP for /* Generate the pattern of n lines using nested loops

```

      A
    A  B  C
  A  B  C  D  E
A  B  C  D  E  F  G
      •
      •
    N lines      /*

```

Q63. WAP for /* Generate the pyramid

```

      1
    1 2 3
  1 2 3 2 1
1 2 3 4 3 2 1
1 2 3 4 5 4 3 2 1
----- /*

```

Q64. WAP for /* Generate the pyramid using nested loops

```

      1
    2 3 2
  3 4 5 4 3
4 5 6 7 6 5 4
5 6 7 8 9 8 7 6 5
6 7 8 9 0 1 0 9 8 7 6
7 8 9 0 1 2 3 2 1 0 9 8 7

```

```

      8  9  0  1  2  3  4  5  3  2  1  0  9  8
    9  0  1  2  3  4  5  6  5  4  3  2  1  0  9
  0  1  2  3  4  5  6  7  8  9  8  7  6  5  4  3
                    2  1  0  */

```

Q65. WAP for /* Generate the pattern of digits */

Q66. WAP for /* Generate the pattern

1 = 1

1 + 2 = 3

1 + 2 + 3 = 6

1+ 2 + 3 + 4 += 10

1 + 2+ 3 + 4 + 5 = 15

1+ 2 + 3 + 4 + 5 + 6 = 21

----- */

Q67. WAP for /* printing Floyd triangle

1

2 3

4 5 6

7 8 9 10 */

Q68. WAP for /* sum of the series $x = (x^2) + (x^3) + (x^4) + (x^5) + \dots$ */

Q69A. WAP for /* find the value of $\sin(x)$ using the series $x - x^3/3! + \dots$ upto n terms

*/

Q69B. WAP for /* find the value of $\cos(x)$ using the series $1 - x^2/2! + x^4/4! + \dots$ upto n terms accuracy without using the function and print $\cos(x)$ */

Q70. WAP for /* convert decimal numeral to roman numeral */

Part II

- Q1. WAP for /* Display general message using method */
- Q2. WAP for /*Calculate compound interest using method */
- Q3. WAP for /* Add three numbers using method */
- Q4. WAP for /* find square of a number using method */
- Q5. WAP for /* find largest of three numbers */
- Q6. WAP for /* largest of three number using method returning a value */
- Q7. WAP for /* find the factorial of a number non recursively */
- Q8. WAP for /* Implement a^b where a and b are integers */
- Q9. WAP for /* find the primes , their count , sum and average between 10 and 50 */
- Q10. Implement the investment equation $v = p(1+r)^n$ using method without argument */
- Q11. WAP for /* Illustration of method */
- Q12. WAP for /* Illustration of a static variable */
- Q13. WAP for /* Display welcome message using method */
- Q14. WAP for /* swapping of two numbers */
- Q15. WAP for /* calculate the area and perimeter of a circle */
- Q16. WAP for /* set smaller of two integers to 0 */
- Q17. WAP for /* Base conversion using method */
- Q18. WAP for /* sum of $1 + 1/1! + 1/2! + 1/3! + 1/4! + \dots$ */
- Q19. WAP for /* sum of the series $x - (x^2)/2! + (x^3)/3! - (x^4)/4! + \dots$ */

Q20. WAP for /*compute sum of the series $x + x^2/3! + x^3/5! + \dots + x^n/(2n-1)!$ */

Q21. WAP for /* compute sum of series $y + y^3/2! + 5/3! + \dots + Y^{(2M-1)}/M!$ */

Q22. WAP for /* sum of sin series */

Q23. WAP for /* sum of cosine series */

Q24. WAP for /* convert 2-digit octal number to binary equivalent */

Q25. WAP for /* find divisors of a positive integer using nested method */

Q26. WAP for /* find standard deviation of n number */

Q27. WAP for /* Display word equivalent of a number (of 1 – 3 digits) */

Q28. WAP for /* read two integer numbers and find their sum , difference , multiplication and division using a separate method for each of these operations */

Part III

Q1. WAP for /* find sum of a number */

Q2. WAP for /* factorial of a number */

Q3. WAP for /* find $C(n,r)$ using factorial function recursively */

Q4. WAP for /* find $C(n,r)$ recursively */

Q5. WAP for /* Gcd of two positive integers (highest common factor) */

Q6. WAP for /* Generate first n Fibonacci terms */

Q7. WAP for /* Add two positive integers recursion */

Q8. Wap FOR /* Multiply two positive integers using recursion */

Q9. WAP for /* Binary numbers */