EX-MS8 | JS EXAM 1
26/04/20

1. Write a program to store 3 student names in an array. Take another array to store score of these three students. Assume that total marks are 500 for each student, display the scores & percentages of students like:
    Expected Output:
    * Score of Kashif is 320. Percentage is 64%
    * Score of Adil is 230. Percentage is 46%
    * Score of Javed is 480. Percentage is 96%
2. Write a program to sum the first 100 numbers. **Expected Output:** 5050
3. Write a program that takes a number from user and display the multiplication table vertically from 1 to n.
    Input: 5 (For e.g)
    Expected Output:
    Multiplication table from 1 to 5
    1x1=1 2x1=2 3x1=3 4x1=4 5x1=5
    1x2=2 2x2=4 3x2=6 4x2=8 5x2=10
    1x3=3 2x3=6 3x3=9 4x3=12 5x3=15
    1x4=4 2x4=8 3x4=12 4x4=16 5x4=20
    1x5=5 2x5=10 3x5=15 4x5=20 5x5=25
    1x6=6 2x6=12 3x6=18 4x6=24 5x6=30
    1x7=7 2x7=14 3x7=21 4x7=28 5x7=35
    1x8=8 2x8=16 3x8=24 4x8=32 5x8=40
    1x9=9 2x9=18 3x9=27 4x9=36 5x9=45
    1x10=10 2x10=20 3x10=30 4x10=40 5x10=50
4. Generate the following series using for loops.
    a. Counting: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15
    b. Reverse counting: 10, 9, 8, 7, 6, 5, 4, 3, 2, 1
    c. Even: 0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20
    d. Odd: 1, 3, 5, 7, 9, 11, 13, 15, 17, 19
    e. Series: 2k, 4k, 6k, 8k, 10k, 12k, 14k, 16k, 18k, 20k
5. Write a program to identify the largest & the smallest number in the given array. A = [24, 53, 78, 91, 12]
    Expected Output:
    Largest Number = 91, Smallest Number = 12
6. Write a JavaScript function that checks whether a passed string is palindrome or not?
    A palindrome is word, phrase, or sequence that reads the same backward as forward,
    e.g., madam. (Don't use Array.Reverse())
7. Write a Javascript function which accepts an random alphabet array and check if the
    pattern 'p' 'a' 'k' is found serially in that array.
    E.g. Array ['a', 'b', 'q', 'p', 'a', 'l', 'p', 'a', 'k', 'w', 'x', 'z']
8. Write a JavaScript function that generates a string id (of whatever length is provided) of random characters
    Sample character list : "ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789"
    Output can be: B4332kasdih832hrf3nikja (Incase of length=23)
9. Write a JavaScript program to filter out the non-unique values in an array.
10. Write a JavaScript function that will return the number of minutes in hours and minutes.
    Test Data :
    console.log(timeConvert(200));
    Output :
    "200 minutes = 3 hour(s) and 20 minute(s)."