**Java Simple Assignments**

1. Write a simple java program, take a value from an array from 1 to 100, separate them into odd Numbers and even Numbers. And print them as a string.

EX: - Odd Numbers: -

Even Numbers: -

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1. Write a simple java program which takes a word as an argument and returns a word that repeats itself based on the number of letters in the word.

Ex : Input: Hello

Output : Hello , Hello , Hello, Hello, Hello

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1. Write a simple java program, which takes input as a string and prints every second element and separates them using comma.
   * EX: - Input: - Hello do you love java?
   * Output: - Hello, you, Java.

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1. Take array input from user

{10,-20,-2,4,-7,11,-22,9}

User has to input even number of elements

Number of positive and negative element should be equal

No duplicate values

Sort the positive elements in dec order

Sort the negative element in asc order

Print alternately

11 -22 10 -20 9 -7 4 -2

Enter values in array : 10 -20 -2 4 -7 11 -22 9

Original input : {10,-20,-2,4,-7,11,-22,9}

Output : 11 -22 10 -20 9 -7 4 -2

Enter values in array : 10 -20 -2 4 -7 11 -22

Enter even number of elements

Enter values in array : 10 -20 -2 4 -7 11 -22 -4

Enter equal number od +ive and -ive elem

Enter values in array : 10 -20 -2 4 -7 11 -22 10

Do not enter duplicate values

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1. Take Array input from user and make X elements flow in waterfall and antiwaterfall direction.

Input : 1 2 3 4 5 6 7 8 9

X : 3

Output :

WF AWF

7 4

8 5

9 6

1 7

2 8

3 9

4 1

5 2

6 3

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1. Take a array input from user

Every element should consist of exact 3 digit .

Add every individual digit of element and print in new array .

If resultant array consist of 2 digit elements then again add every single digit of element and print in new array.

Repete till you get resultant array in single digit values.

Print sum of final resultant array .

**Test Cases :**

Input : Arr = { 123 , 311 ,236, 624, 441}

Output :

{*6 ,5 ,11, 12, 9*} -> Resultant array contain 2 digit values

Add every digit of 2 digit values and print again

{6, 5, 2, 3, 9} -> Final O/P

Sum of final resultant array : 25

Input : Arr = { 123 , -311 ,236, -624, 441}

Output :

{6, -5, 11, -12, 9) -> Resultant array contain 2digit value

{6,-5,2,-3,9}

Sum of final resultant array : 9