JS-A1#4

Task 1	Watch the lesson video carefully twice (at least). Then answer the following questions a. Do all the questions solved in the video i. Add 1 to odd number ii. Divisible by 2, 3 and 6 iii. Pattern JKJKJK iv. Check prime or composite

Task 2	Given a number n. If n is greater than 0, display the message Positive Number otherwise display Not a Positive Number in the console.	
Test Cases	**Input**	**Expected Output**
	n=3	Positive Number
	n=-7	Not a Positive Number
	n=5	Positive Number
	n=0	Not a Positive Number

Task 3	Given a number n. If n is a multiple of 10, display the message Multiple of 10, otherwise display Not a Multiple of 10 in the console.	
Test Cases	**Input**	**Expected Output**
	n=28	Not a Multiple of 10
	n=50	Multiple of 10
	n=99	Not a Multiple of 10
	n=120	Multiple of 10

Task 4	Given 2 numbers m and n. If m is greater than n, display Larger in the console. If they are equal display Equal. If m is less than n, display Smaller.	
Test Cases	**Input**	**Expected Output**
	m=10, n=3	Larger
	m=15, n=15	Equal
	m=6, n=8	Smaller

Task 5	Given n, check which of the numbers from 2 to 5 divide n and display it on the console.	
Test Cases	**Input**	**Expected Output**
	n=15	2: no 3: yes 4: no 5: yes
	n=22	2: yes 3: no 4: no 5: no

Task 6	Using a for loop, print numbers from 1 to 15 in the console. If the number is divisible by 5, print Hello instead of the number.

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Task 7	Given a number n. Display the following in the console.	
Test Cases	**Input**	**Expected Output**
	n=3	1:odd 2:even 3:odd
	n=4	1:odd 2:even 3:odd 4:even
	n=1	1:odd

Task 8	Given a number n, display all the numbers that divide n in the console.	
Test Cases	**Input**	**Expected Output**
	n=10	1 2 5 10
	n=17	1 17
	n=9	1 3 9
	n=1	1

Task 9	Given a number n, display all following pattern in the console.	
Test Cases	**Input**	**Expected Output**
	n=5	Square of 1 = 1 : odd Square of 2 = 4 : even Square of 3 = 9 : odd Square of 4 = 16 : even Square of 5 = 25 : odd

Task 10	Given n as input, print on the console Good if n>=75, Average if n is greater than equal to 50 but less than 75 and Poor otherwise.	
Test Cases	**Input**	**Expected Output**
	n=81	Good
	n=63	Average
	n=44	Poor
	n=75	Good

Task 11	Given n as input, print on the console Grade A if n is between 90 and 100, Grade B if it is between 75 and 90, Grade C if it is between 50 and 75 and Grade D otherwise.	
Test Cases	**Input**	**Expected Output**
	n=45	Grade D
	n=56	Grade C

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	n=78	Grade B
	n=96	Grade A

Task 12	Given a number n, display the pattern shown below in the console.	
Test Cases	**Input**	**Expected Output**
	n=4	X XY XYX XYXY
	n=3	X XY XYX
	n=1	X

Task 13	Given a number n, display the pattern shown below in the console.	
Test Cases	**Input**	**Expected Output**
	n=4	ABCA
	n=6	ABCABC
	n=3	ABC
	n=1	A
	n=10	ABCABCABCA
	n=2	AB

Task 14	Given a number n, display the pattern shown below in the console.	
Test Cases	**Input**	**Expected Output**
	n=4	P1Q2R3P4
	n=6	P1Q2R3P4Q5R6
	n=3	P1Q2R3
	n=1	P1
	n=8	P1Q2R3P4Q5R6P7Q8
	n=2	P1Q2

Task 15	Given n, print the pattern on the console.	
Test Cases	**Input**	**Expected Output**
	n=3	1#3
	n=4	1#3#
	n=9	1#3#5#7#9
	n=1	1

Task 16	Given n as input, print the following pattern -1+2-3+4-5+....(+/-)n on the console	
	Input	**Expected Output**
Test Cases	n=6	-1+2-3+4-5+6

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	n=5	-1+2-3+4-5
	n=2	-1+2

Task 17	Given n as input, print the following pattern -1+2-3+4-5+....(+/-)n = value on the console	
Test Cases	**Input**	**Expected Output**
	n=6	-1+2-3+4-5+6=3
	n=5	-1+2-3+4-5=-3
	n=2	-1+2=1
	n=7	-1+2-3+4-5+6-7=-4

Task 18	Given n, print the following pattern on the console. Note that all the multiples of 3 have been denoted by x.	
Test Cases	**Input**	**Expected Output**
	n=3	x21
	n=7	7x54x21

Task 19	Given n, print on the console the numbers that divide n and the numbers that do not divide n. Note that the numbers to be checked are from 1 to n.	
Test Cases	**Input**	**Expected Output**
	n=9	Divide: 1#3#9# Not Divide: 2#4#5#6#7#8#
	n=4	Divide: 1#2#4# Not Divide: 3#
	n=2	Divide: 1#2# Not Divide:

Task 20	Given a 4 digit number n, find the sum of its digits. Display the sum on the console. Note that n%10 gives its last digit. So if n=2456, n%10 is 6. Subtraction 6 from 2456 gives 2450 and then dividing it by 10 gives 245, that is the last digit is removed. So, run a for loop from 1 to 4 and in the loop do 3 things - calculate the last digit - subtract the last digit from the number - divide the number by 10 to remove the last digit.	
Test Cases	**Input**	**Expected Output**
	n=2456	17
	n=1001	2
	n=9999	36
	n=1234	10