

JS-A1#5

Task 1	<p>Watch the lesson video carefully twice (at least). Then answer the following questions</p> <ol style="list-style-type: none"> Do all the questions solved in the video <ol style="list-style-type: none"> Count the number of z Double each char Create 3 strings - alphabets, digits, others Remove multiple # Number of times second string appears in first All words in sentence Explain break. What is its purpose and when should it be used. Use an example to explain
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Task 2	Given a String str, print Long on the console if its length is greater than 5 otherwise print Short.	
Test Cases	Input	Expected Output
	str=Edufect	Long
	str=Java	Short
	str=123456789	Long

Task 3	Given a String str, count the number of m in it.	
Test Cases	Input	Expected Output
	str=moo zoom	Count of m=2
	str=mmmMMMm	Count of m=4
	str=abcd	Count of m=0

Task 4	Given a String str, count the number of x and y in it.	
Test Cases	Input	Expected Output
	str=x+y+xy+4x=7	x=3 y=2
	str=ax+cz+dx=0	x=2 y=0
	str=12789	x=0 y=0

Task 5	Given a String str, print the indexes at which a or b occur.	
Test Cases	Input	Expected Output
	str=abca	a at Index:0 b at Index:1 a at Index:3
	str=123	
	str=cdeghBannb	a at index:6 b at index:9

Task 6	Given a String str, create a new String in which the first character has been removed. Display the new string in the console.	
Test Cases	Input	Expected Output
	str=Perfect	erfect

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	str=Java	ava
	str=123456789	23456789

Task 7	Given a String str, create a new String in which z has been replaced by x. Display the new string in the console.	
Test Cases	Input	Expected Output
	str=zoom	xoom
	str=sleep=zzz	sleep=xxx
	str=az+bz=4	ax+bx=4

Task 8	Given a String str, create a new String in which all m have been removed. Display the new string in the console.	
Test Cases	Input	Expected Output
	str=my#mother	y#other
	str=am:pm:my:time	a:p:y:tie
	str=Hello123	Hello123

Task 9	Given a String str, create a new String with the characters at even index in the String. Note that the starting index is 0 which has been considered as even.	
Test Cases	Input	Expected Output
	str=01234	024
	str=JavaMasters	JvMses
	str=x	x

Task 10	Given a string str, print all the digits in the string on the console.	
Test Cases	Input	Expected Output
	str = qw23BN**45g	Digits=2345
	str = 9810098100	Digits=9810098100
	str = qwNN*%bT	Digits=

Task 11	Given a string str, replace all uppercase alphabets by A, lowercase alphabets by a, digits by 0. Print the new string on the console.	
Test Cases	Input	Expected Output
	str = qw23BN**45g	aa00AA**00a
	str = #98#bQ	#00#aA
	str = qwNN*%bT	aaAA*%aA

Task 12	Given a string str, double all the alphabets, triple the digits and remove all the other characters. Print the new string on the console.	
Test Cases	Input	Expected Output
	str = qw2B**5g	qqww222BB555gg
	str = 9#a\$M%2eP	999aaMM222eePP
	str = qwNN*%bT	qqwwNNNNbbTT

Task 13	Given a string str, move the lower case characters to the start of the string, digits in the middle and uppercase characters at the end of the string.	
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Test Cases	Input	Expected Output
	str = qw2B**5g	qwg25B
	str = 9#a\$M%2eP	ae92MP
	str = qwNN*%bT	qwbNNT

Task 14	Given a string str, create a string consisting of all the non-alphabets and non-digits.	
Test Cases	Input	Expected Output
	str = q#w2@B**5g	#@**
	str = 9#a\$M%2eP&\$	#\$%&\$
	str = qwNN*%bT	*%

Task 15	Given a string str, print the first half of the string on the console. Assume that the length of the string is even.	
Test Cases	Input	Expected Output
	str = ABCDABCD	ABCD
	str = JavaScript++JS	JavaScr
	str = 1234	12

Task 16	Given a string as input, create a new string which is the latter half of the string . Assume that the string is of even length.	
Test Cases	Input	Expected Output
	JAVA	VA
	Master	ter
	1234567890	67890
	ab	b

Task 17	Given a string as input, create a new string where the latter half appears first. If the string is of odd length then the middle char remains in its position.	
Test Cases	Input	Expected Output
	JAVA	VAJA
	EDUFECT	ECTFEDU
	123456	456123
	HELLO	LOLHE
	A	A

Task 18	Given a string str as input, check whether str can be of the type str = str1+str1. Note that the string has to be of even length. Also, you can create two strings, the first half and the second half and then check whether they are the same. For e.g. dada is da+da and hence the output is Yes	
Test Cases	Input	Expected Output
	Java	No
	dada	Yes
	ABCABD	No
	123123	Yes
	ABCDEABCDF	No

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Task 19	Given a string as input, print the middle char of the string and its index. Assume that the string is of odd length.	
Test Cases	Input	Expected Output
	ABCDE	Middle Char = C Index = 2
	Abc	Middle Char = b Index = 1
	1	Middle Char = 1 Index = 0
	123456789	Middle Char = 5 Index = 4

Task 20	Given a two strings representing names of people, check whether they are the same person. Note that the case of alphabets can be different. So before comparing, convert them into either uppercase or lowercase.	
Test Cases	Input	Expected Output
	str1 = James, str2=jaMES	Same
	str1 = James, str2=Jack	Different
	str1 = james, str2=JAMES	Same
	str1 = James, str2=James Bond	Different

Task 21	Given a string as input, print two strings, one of all the chars appearing at odd index and the second of all the chars appearing at even index.	
Test Cases	Input	Expected Output
	A1B2C3	Odd:123 Even:ABC
	AbCdEf	Odd:bdf Even:ACE
	A1B2C3D4E	Odd:1234 Even:ABCDE
	Q	Odd: Even:Q

Task 22	Given a string as input replace 1 by @, 2 by #. Other characters appear as it is in the new string and are not changed.	
Test Cases	Input	Expected Output
	12ab1128d	@#ab@@#8d
	ab11cd22ef	ab@@cd##ef
	abcd	abcd
	111	@@@

Task 23	Given a string as input replace 1 by @, 2 by #, 3 by & and 4-9 by \$. 0 and other characters appear as it is in the new string and are not changed.	
Test Cases	Input	Expected Output
	12049brt	@#0\$\$brt
	a1b9c3d4QW	a@b\$c&d\$QW

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	1234567890	@#&\$\$\$\$\$0
	Hello	Hello

Task 24	Given a string as input, create a new string where A is replaced by X, B is replaced by Y and all C and D are removed.	
Test Cases	Input	Expected Output
	ABCDEF	YXEF
	BAD CAR	YX XR
	I GOT A BIRTHDAY CARD	I GOT X YIRTHXY XR

Task 25	Given a string remove all + present together in the string.	
Test Cases	Input	Expected Output
	a+++b++c+	a+b+c+
	x+3+45+++	x+3+45+
	++a++b++c	+a+b+c
	1+2+3+4	1+2+3+4

Task 26	Given a string remove all X or Y present together in the string.	
Test Cases	Input	Expected Output
	AAXXXBBYYXCXDYY	AAXBBYCXDY
	AXBYCXDY	AXBYCXDY
	XXXXYYYYYABXXYY	XYABXY
	XYXYXYXY	XYXYXYXY

Task 27	Given a string str, check whether the string starts with ABCD.	
Test Cases	Input	Expected Output
	str = ABCD JS	Starts with ABCD
	str = AB CD Java	Does not start
	str = ABCD	Starts with ABCD

Task 28	Given a string str, count the number of times the string ABCD is in it.	
Test Cases	Input	Expected Output
	str = ABCD JS	Count of ABCD = 1
	str = AB CD Java	Count of ABCD = 0
	str = ABCDABCDABCD	Count of ABCD = 3
	str = AB ABC ABCD ABCD ABC AB	Count of ABCD = 2

Task 29	Given a string str, replace ABCD with XYZ.	
Test Cases	Input	Expected Output
	str = ABCD JS	XYZ JS
	str = AB CD Java	AB CD Java
	str = ABCDABCDABCD	XYZXYZXYZ
	str = AB ABC ABCD ABCD ABC AB	AB ABC XYX XYZ ABC AB