

STRING METHODS

Assignment # 21-25
JAVASCRIPT

MODULE A - Mobile & Cloud Computing

| STRINGS METHODS |

1. Write a program that takes two user inputs for first and last name using prompt and merge them in a new variable titled **fullName**. Greet the user using his full name.
2. Write a program to take a user input about his favorite mobile phone model. Find and display the length of user input in your browser.

My favorite phone is: Samsung Galaxy S6 Edge Plus
Length of string: 28

3. Write a program to find the index of letter “n” in the word “Pakistani” and display the result in your browser.

String: Pakistani
Index of 'n': 7

4. Write a program to find the last index of letter “l” in the word “Hello World” and display the result in your browser.

String: Hello World
Last index of 'l': 9

5. Write a program to find the character at 3rd index in the word “Pakistani” and display the result in your browser.

String: Pakistani
Character at index 3: i

6. Repeat Q1 using string concat() method.
7. Write a program to replace the “Hyder” to “Islam” in the word “Hyderabad” and display the result in your browser.

City: Hyderabad
After replacement: Islamabad

8. Write a program to replace all occurrences of “**and**” in the string with “**&**” and display the result in your browser.
var message = “Ali and Sami are best friends. They play cricket and football together.”;

Message: Ali and Sami are best friends. They play cricket and football together.
After replacement: Ali & Sami are best friends. They play cricket & football together.

9. Write a program that converts a string “472” to a number 472. Display the values & types in your browser.

Value: 472
Type: string
Value: 472
Type: number

10. Write a program that take a URL as user input in the following format: (www.facebook.com / www.yahoo.com). Extract the domain name & show in your browser.

URL: www.facebook.com
Domain: facebook.com

11. Write a program that takes user input. Convert and show the input in capital letters.

User input: peanuts
Upper case: PEANUTS

12. Write a program that takes user input. Convert and show the input in small letters.

User input: ZONG 4G
Lower case: zong 4g

13. Write a program that takes user input. Convert and show the input in title case.

Reload this page
User input: javascript
Title case: Javascript

14. Write a program that converts the variable **num** to string.

var num = 35.36 ;

Remove the dot to display “3536” display in your browser.

Number: 35.36
Result: 3536

15. Write a program to display the value of x in your browser if a=”3” and b=”3”?

$$x = a + b$$

```
a is 3  
b is 3  
a + b is 33
```

16. Write a program to display the value of y in your browser if a="3" and b="3"?

$$y = a - b;$$

```
a is 3  
b is 3  
a - b is 0
```

17. Write a program to take user input and store username in a variable. If the username contains any special symbol among [@ . , !], prompt the user to enter a valid username. For character codes of [@ . , !], refer to ASCII table at the end of this document.

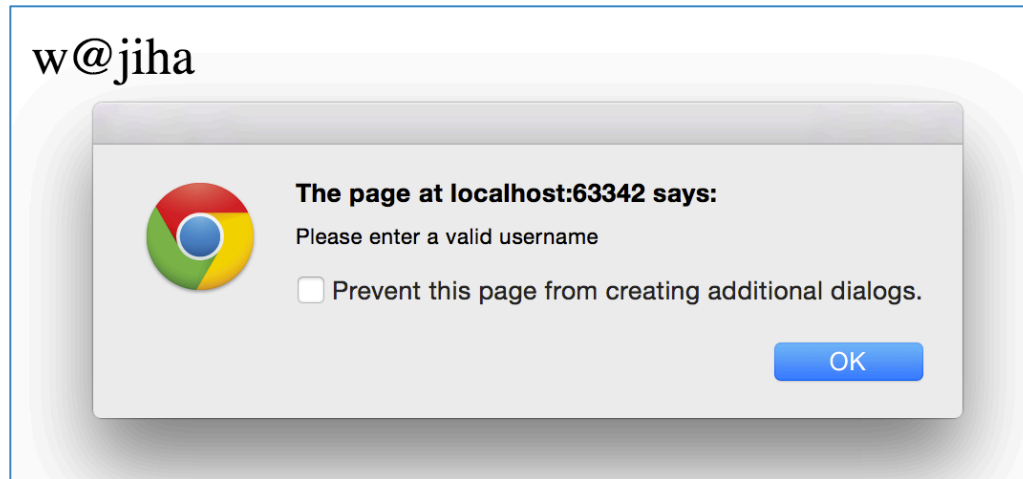
Note:

ASCII code of ! is 33

ASCII code of , is 44

ASCII code of . is 46

ASCII code of @ is 64

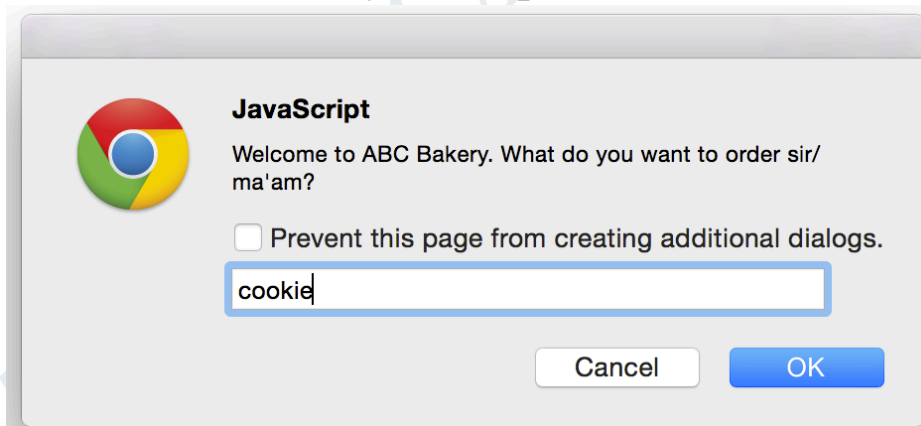


18. You have an array

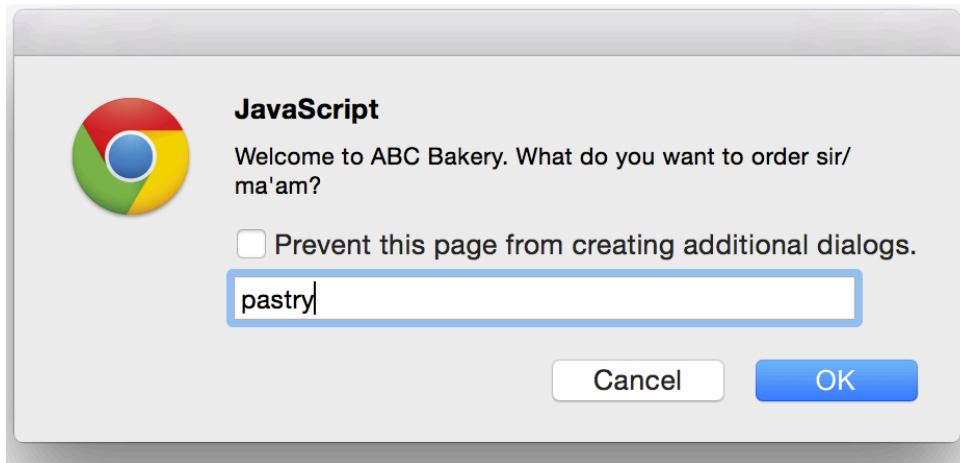
$A = [\text{"cake"}, \text{"apple pie"}, \text{"cookie"}, \text{"chips"}, \text{"patties"}]$

Write a program to enable “search by user input” in an array. After searching, prompt the user whether the given item is found in the list or not.

Note: Perform case insensitive search. Whether the user enters cookie, Cookie, COOKIE or coOkIE, program should inform about its availability. Example:



cookie is **available** at index 2 in our bakery



We are sorry. pastry is **not available** in our bakery

19. Write a program to take two input strings. Using string comparison, tell which string is greater than other or if they both are equal.

car is greater than cab

20. Write a program to take password as an input from user. The password must qualify these requirements:

- It should contain alphabets and numbers
- It should not start with a number
- It must at least 6 characters long

If the password does not meet above requirements, prompt the user to enter a valid password.

For character codes of **a-z**, **A-Z** & **0-9**, refer to ASCII table at the end of this document.

Entered password: 123wajiha
Password can not begin with a number
Please enter a valid password

21. Write a program to convert the following string to an array using string split method.

var university = "University of Karachi";

Display the elements of array in your browser.

U
n
i
v
e
r
s
i
t
y

o
f

K
a
r
a
c
h
i

22. Write a program to display the last character of a user input.

User input: Pakistan
Last character of input: n

23. You have a string “The quick brown fox jumps over the lazy dog”. Write a program to count number of occurrences of word “the” in given string.

Text: The quick brown fox jumps over the lazy dog
There are 2 occurrence(s) of word 'the'

24. Write a program to count number of vowels & consonants in given string

```
var str = "Pakistan";
```

ASCII TABLE

Decimal	Hex	Char	Decimal	Hex	Char	Decimal	Hex	Char	Decimal	Hex	Char
0	0	[NULL]	32	20	[SPACE]	64	40	@	96	60	`
1	1	[START OF HEADING]	33	21	!	65	41	A	97	61	a
2	2	[START OF TEXT]	34	22	"	66	42	B	98	62	b
3	3	[END OF TEXT]	35	23	#	67	43	C	99	63	c
4	4	[END OF TRANSMISSION]	36	24	\$	68	44	D	100	64	d
5	5	[ENQUIRY]	37	25	%	69	45	E	101	65	e
6	6	[ACKNOWLEDGE]	38	26	&	70	46	F	102	66	f
7	7	[BELL]	39	27	'	71	47	G	103	67	g
8	8	[BACKSPACE]	40	28	(	72	48	H	104	68	h
9	9	[HORIZONTAL TAB]	41	29	)	73	49	I	105	69	i
10	A	[LINE FEED]	42	2A	*	74	4A	J	106	6A	j
11	B	[VERTICAL TAB]	43	2B	+	75	4B	K	107	6B	k
12	C	[FORM FEED]	44	2C	,	76	4C	L	108	6C	l
13	D	[CARRIAGE RETURN]	45	2D	-	77	4D	M	109	6D	m
14	E	[SHIFT OUT]	46	2E	.	78	4E	N	110	6E	n
15	F	[SHIFT IN]	47	2F	/	79	4F	O	111	6F	o
16	10	[DATA LINK ESCAPE]	48	30	0	80	50	P	112	70	p
17	11	[DEVICE CONTROL 1]	49	31	1	81	51	Q	113	71	q
18	12	[DEVICE CONTROL 2]	50	32	2	82	52	R	114	72	r
19	13	[DEVICE CONTROL 3]	51	33	3	83	53	S	115	73	s
20	14	[DEVICE CONTROL 4]	52	34	4	84	54	T	116	74	t
21	15	[NEGATIVE ACKNOWLEDGE]	53	35	5	85	55	U	117	75	u
22	16	[SYNCHRONOUS IDLE]	54	36	6	86	56	V	118	76	v
23	17	[ENG OF TRANS. BLOCK]	55	37	7	87	57	W	119	77	w
24	18	[CANCEL]	56	38	8	88	58	X	120	78	x
25	19	[END OF MEDIUM]	57	39	9	89	59	Y	121	79	y
26	1A	[SUBSTITUTE]	58	3A	:	90	5A	Z	122	7A	z
27	1B	[ESCAPE]	59	3B	;	91	5B	[	123	7B	{
28	1C	[FILE SEPARATOR]	60	3C	<	92	5C	\	124	7C	|
29	1D	[GROUP SEPARATOR]	61	3D	=	93	5D	]	125	7D	}
30	1E	[RECORD SEPARATOR]	62	3E	>	94	5E	^	126	7E	~
31	1F	[UNIT SEPARATOR]	63	3F	?	95	5F	_	127	7F	[DEL]

-- END --