

# IS 145 – Website Technology

## Programming Project 9

### Project Directions

This is an individual programming project.

For this assignment you will write an HTML program named specialchars.htm that uses JavaScript statements to output a table showing the HTML special character numbers 1-256 and their associated symbols. The HTML Character Entities are listed in Table A-2 on page HTML A5. Example output is shown on the next page. The project start file is named specialchars\_txt.htm.

### Grading

#### Executable files

- Create a folder named LastNameP9 (in zip format) that will contain the completed specialchars.htm program.
- Upload your zipped folder in the course Blackboard page content area in the assignment named Upload Completed P9 Folder. (It is necessary to do this so that the e-mail system does not block an HTML program attachment that includes JavaScript code).

40 points possible

### Program Requirements

- Add a set of embedded styles for each td element that sets the font size to 11pt, the font family to Courier New and then monospace, horizontally centers the text, and vertically aligns the text to the top of the cell.
- The HTML table code must be output using JavaScript statements. HTML code that is output to the interpreter can use document.write statements.
- The table element should have an attribute that sets the border to 5. Output the tr element to start the header row. Then output a table header statement that spans 16 columns and displays the header HTML Special Characters. Close the header row.
- Use a JavaScript for statement to loop through the correct number of times to output each of the 16 cells per row. This loop will use an index variable named j.
- A counter variable named k can be used to store the special character number during the process of outputting the table.
- Use a JavaScript for statement to loop through the correct number of times to output the start and end tags for each of the 16 rows. This outer loop will use an index variable named i.
- At the beginning of each row in the table body you will determine whether it is an odd or even numbered row. This can be done using the % arithmetic operator and the loop variable as the condition in an if/else statement. If it is an odd numbered row in the table body then the row will begin with the tag <tr bgcolor='pink'>, otherwise it will just start with the normal <tr> tag.
- Each cell will show the special character number above the special character that displays.
- Table styles are included in the embedded style statements that are given.
- The JavaScript code required to output the table should only require about 15 lines of code.

## Example Output

The screenshot shows a web browser window titled "specialchars.htm". The main content is a 16x16 grid titled "HTML Special Characters". Each cell contains a character or its ASCII code. The grid includes standard characters like 'A' through 'Z', 'a' through 'z', and various symbols like '&', '<', and '>'. It also includes many non-ASCII characters such as 'À', 'à', 'ä', 'ö', 'ñ', and '€'. The browser interface at the top includes a back/forward button, a search bar, and a tab labeled "T".

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□
33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
!	"	#	\$	%	&	'	(	)	*	+	,	-	.	/	0
49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
1	2	3	4	5	6	7	8	9	:	;	<	=	>	?	@
65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96
Q	R	S	T	U	V	W	X	Y	Z	[	\	]	^	_	`
97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112
a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p
113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128
q	r	s	t	u	v	w	x	y	z	{		}	~	€	
129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144
□	,	f	"	...	†	‡	^	‰	š	<	€	□	ž	□	□
145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160
‘	’	“	”	•	–	—	~	™	š	>	œ	□	ž	Ý	
161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176
í	ç	ƒ	¤	⌘	!`	§	“	®	ª	«	¬	»	®	—	°
177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192
±	²	³	⁹	μ	¶	·	,	¹	º	»	¼	½	¾	ξ	À
193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208
Á	À	Ã	Ä	Å	È	É	È	É	È	Ì	Í	Î	Ï	Ï	Ð
209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224
Ñ	Ò	Ó	Ô	Õ	Ö	×	Ø	Ù	Ú	Ü	Ý	Þ	ß	à	
225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240
á	â	ã	ä	å	æ	ç	è	é	ê	ë	ì	í	î	ï	ð
241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256
ñ	ò	ó	ô	õ	ö	÷	ø	ù	ú	ü	ý	þ	ÿ	ã	