MET MA 603: SAS Project Exam Help SAS Programming and https://powcoder.com Applications Add WeChat powcoder

Understanding '09'x

What is '09'x ?

Why does '09'x correspond to TAB? The answer, of course, is that '09'x is the hexadecimal ASCII code representation of TAB.

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In order to understand this definition we need to know what is meant by **hexadecimal** and by **ASCII**.

Hexadecimal

Hexadecimal is a numbering system that uses a base of 16 (most of the time we use a base of 10).

In computing, it is common to use a base of 2 (i.e., binary), where each namber is common to use a base of 2 (i.e., binary), where each namber is common to use a base of 2 (i.e., binary),

In hexadecimal, 0 to 9 represent the same numbers as they do in base 10, while the numbers from 10 to 15 are represented with the letters hat powcoder

For example, the number 33 in base 10 would be represented as 21 in hexadecimal (2 x 16^1 + 1 x 16^0). The number 1514 in base 10 corresponds to 5EA in hexadecimal (5 x 16^2 + 14 x 16^1 + 10 x 16^0).

ASCII

ASCII stands for the "American Standard Code for Information Interchange". It's a system, often used in computing, for representing characters with code.

Note that the Assign the hard the letters of the alphabet with dots and dashes.

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For example, the ASGIL code for the letter A is 65. In hexadecimal, this corresponds to 41.

ASCII Table

The table below shows some of the ASCII codes for different characters in base 10 and in base 16 (Hex).

	ASCII	Hex	Symbol	ASCII Hex Symbol			ASCII Hex Symbol			ASCII Hex Symbol		
ı	0	A	S ₁ S ₁ S	ทาก	1@1	ntleP	roi	e c	(spice)X	am	3	leln
	1	1	SOH	17	11	DC1	33	21	Ţ	49	31	111
	2	2	STX	18	12	DC2	34	22	"	50	32	2
	3	3	ETX	19	13	DC3	35	23	#	51	33	3
	4	4	EOT	1120	C14	DOMO:	X 136	CRF	er.c	O121	34	4
	5	5	ENQ -	Irep	3 5/	NAK	VV37	1 25		O 131	35	5
	6	6	ACK	22	16	SYN	38	26	&	54	36	6
	7	7	BEL	23	17	ETB	39	27		55	37	7
	8	8	BS	24	18	CAN C	1.40	_28		56	38	8
	9	9	TAB _	A CEC	19	VEW C	Mal	29) W(O(UUU	39	9
ı	10	Α	LF	26	1A	SUB	42	2A	*	58	3A	1
ı	11	В	VT	27	1B	ESC	43	2B	+	59	3B	;
ı	12	С	FF	28	1C	FS	44	2C	,	60	3C	<
	13	D	CR	29	1D	GS	45	2D	-	61	3D	=
	14	E	SO	30	1E	RS	46	2E		62	3E	>
ı	15	F	SI	31	1F	US	47	2F	1	63	3F	?
ľ												
	ASCII Hex Symbol			ASCII Hex Symbol			ASCII Hex Symbol			ASCII Hex Symbol		
ı	64	40		80	50	Р	96	60		112	70	
	65	41	@	81	51		97	61		113	71	p
	66	41	A B			Q	98		a	113		q
	67	42	C	82	52 53	R S		62 63	b		72 73	r
	0/	43	C	83	53	3	99	63	С	115	13	S

Back to '09'x

As seen in the table on the previous slide, 09 is the ASCII representation of TAB, both in base 10 and in base 16.

SAS uses hexadecimal ASCII to represent each character. When we use the symbol that is represented by the ASCII code 09 in the hexatterimpal system (indicated by the x).

Note that for most purposes, the single and double quotes have the same function in SAS. In this case, "09"x will produce the same result as '09'x.

To test your understanding: one of the examples in the code for lesson 007 imports the file city_populations7.txt using DLM="-". Can you modify your code so that it uses the ASCII code for dash instead?

Readings

http://ascii.cl/

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