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Kelas : A

A. Pengertian Kode ASCII

ASCII (*American Standard Code for Information Interchange*) merupakan Kode Standar Amerika untuk pertukaran Informasi atau sebuah standar internasional dalam pengkodean huruf dan simbol seperti Unicode dan Hex tetapi ASCII lebih bersifat universal.

B. Tabel Kode ASCII

Nilai ANSI ASCII (Desimal)	Nilai Unicode (Heksa Desimal)	Biner	Karakter
0	00	00000000	NUL
1	01	00000001	SOH
2	02	00000010	STX
3	03	00000011	ETX
4	04	00000100	EOT
5	05	00000101	ENQ
6	06	00000110	ACK
7	07	00000111	BEL
8	08	00001000	BS
9	09	00001001	HT
10	0A	00001010	LF
11	0B	00001011	VT
12	0C	00001100	FF
13	0D	00001101	CR
14	0E	00001110	SO
15	0F	00001111	SI
16	10	00010000	DLE
17	11	00010001	DC1

18	12	00010010	DC2
19	13	00010011	DC3
20	14	00010100	DC4
21	15	00010101	NAK
22	16	00010110	SYN
23	17	00010111	ETB
24	18	00011000	CAN
25	19	00011001	EM
26	1A	00011010	SUB
27	1B	00011011	ESC
28	1C	00011100	FS
29	1D	00011101	GS
30	1E	00011110	RS
31	1F	00011111	US
32	20	00100000	space
33	21	00100001	!
34	22	00100010	"
35	23	00100011	#
36	24	00100100	$
37	25	00100101	%
38	26	00100110	&
39	27	00100111	'
40	28	00101000	(
41	29	00101001	)
42	2A	00101010	*
43	2B	00101011	+
44	2C	00101100	,
45	2D	00101101	-
46	2E	00101110	.
47	2F	00101111	/

48	30	00110000	0
49	31	00110001	1
50	32	00110010	2
51	33	00110011	3
52	34	00110100	4
53	35	00110101	5
54	36	00110110	6
55	37	00110111	7
56	38	00111000	8
57	39	00111001	9
58	3A	00111010	:
59	3B	00111011	;
60	3C	00111100	<
61	3D	00111101	=
62	3E	00111110	>
63	3F	00111111	?
64	40	01000000	@
65	41	01000001	A
66	42	01000010	B
67	43	01000011	C
68	44	01000100	D
69	45	01000101	E
70	46	01000110	F
71	47	01000111	G
72	48	01001000	H
73	49	01001001	I
74	4A	01001010	J
75	4B	01001011	K
76	4C	01001100	L
77	4D	01001101	M

78	4E	01001110	N
79	4F	01001111	O
80	50	01010000	P
81	51	01010001	Q
82	52	01010010	R
83	53	01010011	S
84	54	01010100	T
85	55	01010101	U
86	56	01010110	V
87	57	01010111	W
88	58	01011000	X
89	59	01011001	Y
90	5A	01011010	Z
91	5B	01011011	[
92	5C	01011100	\
93	5D	01011101	]
94	5E	01011110	^
95	5F	01011111	_
96	60	01100000	`
97	61	01100001	a
98	62	01100010	b
99	63	01100011	c
100	64	01100100	d
101	65	01100101	e
102	66	01100110	f
103	67	01100111	g
104	68	01101000	h
105	69	01101001	i
106	6A	01101010	j
107	6B	01101011	k

108	6C	01101100	l
109	6D	01101101	m
110	6E	01101110	n
111	6F	01101111	o
112	70	01110000	p
113	71	01110001	q
114	72	01110010	r
115	73	01110011	s
116	74	01110100	t
117	75	01110101	u
118	76	01110110	v
119	77	01110111	w

C. Daftar Perintah Bahasa Assembly:

Instruksi	Keterangan Singkatan
ACALL	**Absolute Call**
ADD	**Add**
ADDC	**Add with Carry**
AJMP	**Absolute Jump**
ANL	**AND Logic**
CJNE	**Compare and Jump if Not Equal**
CLR	**Clear**
CPL	**Complement**
DA	**Decimal Adjust**
DEC	**Decrement**
DIV	**Divide**
DJNZ	**Decrement and Jump if Not Zero**
INC	**Increment**
JB	**Jump if Bit Set**
JBC	**Jump if Bit Set and Clear Bit**
JC	**Jump if Carry Set**
JMP	**Jump to Address**

JNB	**Jump if Not Bit Set**
JNC	**Jump if Carry Not Set**
JNZ	**Jump if Accumulator Not Zero**
JZ	**Jump if Accumulator Zero**
LCALL	**Long Call**
LJMP	**Long Jump**
MOV	**Move from Memory**
MOVC	**Move from Code Memory**
MOVX	**Move from Extended Memory**
MUL	**Multiply**
NOP	**No Operation**
ORL	**OR Logic**
POP	**Pop Value From Stack**
PUSH	**Push Value Onto Stack**
RET	**Return From Subroutine**
RETI	**Return From Interrupt**
RL	**Rotate Left**
RLC	**Rotate Left through Carry**
RR	**Rotate Right**
RRC	**Rotate Right through Carry**
SETB	**Set Bit**
SJMP	**Short Jump**
SUBB	**Subtract With Borrow**
SWAP	**Swap Nibbles**
XCH	**Exchange Bytes**
XCHD	**Exchange Digits**
XRL	**Exclusive OR Logic**