

8085 Microprocessor

S.No.	Mnemonics	Operand	Opcode(HEX)	OPCODE(DEC)	Bytes
1	ACI	Data	CE	206	2
2	ADC	A	8F	143	1
3	ADC	B	88	136	1
4	ADC	C	89	137	1
5	ADC	D	8A	138	1
6	ADC	E	8B	139	1
7	ADC	H	8C	140	1
8	ADC	L	8D	141	1
9	ADC	M	8E	142	1
10	ADD	A	87	135	1
11	ADD	B	80	128	1
12	ADD	C	81	129	1
13	ADD	D	82	130	1
14	ADD	E	83	131	1
15	ADD	H	84	132	1
16	ADD	L	85	133	1
17	ADD	M	86	134	1
18	ADI	Data	C6	198	2
19	ANA	A	A7	167	1
20	ANA	B	A0	160	1
21	ANA	C	A1	161	1
22	ANA	D	A2	162	1
23	ANA	E	A3	163	1
24	ANA	H	A4	164	1
25	ANA	L	A5	165	1
26	ANA	M	A6	166	1
27	ANI	Data	E6	230	2
28	CALL	Label	CD	205	3
29	CC	Label	DC	220	3
30	CM	Label	FC	252	3
31	CMA		2F	47	1
32	CMC		3F	63	1
33	CMP	A	BF	191	1
34	CMP	B	B8	184	1
35	CMP	C	B9	185	1
36	CMP	D	BA	186	1
37	CMP	E	BB	187	1
38	CMP	H	BC	188	1
39	CMP	L	BD	189	1
40	CMP	M	BD	189	1
41	CNC	Label	D4	212	3
42	CNZ	Label	C4	196	3
43	CP	Label	F4	244	3
44	CPE	Label	EC	236	3

45	CPI	Data	FE	254	2
46	CPO	Label	E4	228	3
47	CZ	Label	CC	204	3
48	DAA		27	39	1
49	DAD	B	9	9	1
50	DAD	D	19	25	1
51	DAD	H	29	41	1
52	DAD	SP	39	57	1
53	DCR	A	3D	61	1
54	DCR	B	5	5	1
55	DCR	C	0D	13	1
56	DCR	D	15	21	1
57	DCR	E	1D	29	1
58	DCR	H	25	37	1
59	DCR	L	2D	45	1
60	DCR	M	35	53	1
61	DCX	B	0B	11	1
62	DCX	D	1B	27	1
63	DCX	H	2B	43	1
64	DCX	SP	3B	59	1
65	DI		F3	243	1
66	EI		FB	251	1
67	HLT		76	118	1
68	IN	Port-address	DB	219	2
69	INR	A	3C	60	1
70	INR	B	4	4	1
71	INR	C	0C	12	1
72	INR	D	14	20	1
73	INR	E	1C	28	1
74	INR	H	24	36	1
75	INR	L	2C	44	1
76	INR	M	34	52	1
77	INX	B	3	3	1
78	INX	D	13	19	1
79	INX	H	23	35	1
80	INX	SP	33	51	1
81	JC	Label	DA	218	3
82	JM	Label	FA	250	3
83	JMP	Label	C3	195	3
84	JNC	Label	D2	210	3
85	JNZ	Label	C2	194	3
86	JP	Label	F2	242	3
87	JPE	Label	EA	234	3
88	JPO	Label	E2	226	3
89	JZ	Label	CA	202	3
90	LDA	Address	3A	58	3
91	LDAX	B	0A	10	1

92	LDAX	D	1A	26	1
93	LHLD	Address	2A	42	3
94	LXI	B	1	1	3
95	LXI	D	11	17	3
96	LXI	H	21	33	3
97	LXI	SP	31	49	3
98	MOV	A,A	7F	127	1
99	MOV	A,B	78	120	1
100	MOV	A,C	79	121	1
101	MOV	A,D	7A	122	1
102	MOV	A,E	7B	123	1
103	MOV	A,H	7C	124	1
104	MOV	A,L	7D	125	1
105	MOV	A,M	7E	126	1
106	MOV	B,A	47	71	1
107	MOV	B,B	40	64	1
108	MOV	B,C	41	65	1
109	MOV	B,D	42	66	1
110	MOV	B,E	43	67	1
111	MOV	B,H	44	68	1
112	MOV	B,L	45	69	1
113	MOV	B,M	46	70	1
114	MOV	C,A	4F	79	1
115	MOV	C,B	48	72	1
116	MOV	C,C	49	73	1
117	MOV	C,D	4A	74	1
118	MOV	C,E	4B	75	1
119	MOV	C,H	4C	76	1
120	MOV	C,L	4D	77	1
121	MOV	C,M	4E	78	1
122	MOV	D,A	57	87	1
123	MOV	D,B	50	80	1
124	MOV	D,C	51	81	1
125	MOV	D,D	52	82	1
126	MOV	D,E	53	83	1
127	MOV	D,H	54	84	1
128	MOV	D,L	55	85	1
129	MOV	D,M	56	86	1
130	MOV	E,A	5F	95	1
131	MOV	E,B	58	88	1
132	MOV	E,C	59	89	1
133	MOV	E,D	5A	90	1
134	MOV	E,E	5B	91	1
135	MOV	E,H	5C	92	1
136	MOV	E,L	5D	93	1
137	MOV	E,M	5E	94	1
138	MOV	H,A	67	103	1

139	MOV	H,B	60	96	1
140	MOV	H,C	61	97	1
141	MOV	H,D	62	98	1
142	MOV	H,E	63	99	1
143	MOV	H,H	64	100	1
144	MOV	H,L	65	101	1
145	MOV	H,M	66	102	1
146	MOV	L,A	6F	111	1
147	MOV	L,B	68	104	1
148	MOV	L,C	69	105	1
149	MOV	L,D	6A	106	1
150	MOV	L,E	6B	107	1
151	MOV	L,H	6C	108	1
152	MOV	L,L	6D	109	1
153	MOV	L,M	6E	110	1
154	MOV	M,A	77	119	1
155	MOV	M,B	70	112	1
156	MOV	M,C	71	113	1
157	MOV	M,D	72	114	1
158	MOV	M,E	73	115	1
159	MOV	M,H	74	116	1
160	MOV	M,L	75	117	1
161	MVI	A,Data	3E	62	2
162	MVI	B,Data	6	6	2
163	MVI	C,Data	0E	14	2
164	MVI	D,Data	16	22	2
165	MVI	E,Data	1E	30	2
166	MVI	H,Data	26	38	2
167	MVI	L,Data	2E	46	2
168	MVI	M,Data	36	54	2
169	NOP		0	0	1
170	ORA	A	B7	183	1
171	ORA	B	B0	176	1
172	ORA	C	B1	177	1
173	ORA	D	B2	178	1
174	ORA	E	B3	179	1
175	ORA	H	B4	180	1
176	ORA	L	B5	181	1
177	ORA	M	B6	182	1
178	ORI	Data	F6	246	2
179	OUT	Port-Address	D3	211	2
180	PCHL		E9	233	1
181	POP	B	C1	193	1
182	POP	D	D1	209	1
183	POP	H	E1	225	1
184	POP	PSW	F1	241	1
185	PUSH	B	C5	197	1

186	PUSH	D	D5	213	1
187	PUSH	H	E5	229	1
188	PUSH	PSW	F5	245	1
189	RAL		17	23	1
190	RAR		1F	31	1
191	RC		D8	216	1
192	RET		C9	201	1
193	RIM		20	32	1
194	RLC		7	7	1
195	RM		F8	248	1
196	RNC		D0	208	1
197	RNZ		C0	192	1
198	RP		F0	240	1
199	RPE		E8	232	1
200	RPO		E0	224	1
201	RRC		0F	15	1
202	RST	0	C7	199	1
203	RST	1	CF	207	1
204	RST	2	D7	215	1
205	RST	3	DF	223	1
206	RST	4	E7	231	1
207	RST	5	EF	239	1
208	RST	6	F7	247	1
209	RST	7	FF	255	1
210	RZ		C8	200	1
211	SBB	A	9F	159	1
212	SBB	B	98	152	1
213	SBB	C	99	153	1
214	SBB	D	9A	154	1
215	SBB	E	9B	155	1
216	SBB	H	9C	156	1
217	SBB	L	9D	157	1
218	SBB	M	9E	158	1
219	SBI	Data	DE	222	2
220	SHLD	Address	22	34	3
221	SIM		30	48	1
222	SPHL		F9	249	1
223	STA	Address	32	50	3
224	STAX	B	2	2	1
225	STAX	D	12	18	1
226	STC		37	55	1
227	SUB	A	97	151	1
228	SUB	B	90	144	1
229	SUB	C	91	145	1
230	SUB	D	92	146	1
231	SUB	E	93	147	1
232	SUB	H	94	148	1

233	SUB	L	95	149	1
234	SUB	M	96	150	1
235	SUI	Data	D6	214	2
236	XCHG		EB	235	1
237	XRA	A	AF	175	1
238	XRA	B	A8	168	1
239	XRA	C	A9	169	1
240	XRA	D	AA	170	1
241	XRA	E	AB	171	1
242	XRA	H	AC	172	1
243	XRA	L	AD	173	1
244	XRA	M	AE	174	1
245	XRI	Data	EE	238	2
246	XTHL		E3	227	1