A1.Exchange of 2 16 bit nos	A2.Addition&subtracton of 16 bt	A3.additon of 2 16 bit nos	A6.4digit bcd addition	A7.subtracton of 16 bt nos	A8.sort array of nos. in asc order	A9.multiplication of 2 nos
mvi b,02	nos	mvi c,00	mvi c,00	mvi c,00	mvi d,05	mvi c,08
lxi h,8500	lxi h,8500	Ihld 8500	Ihld 8500	Ihld 8500	loop3: lxi h,8500	mvi d,04
lxi d,8570	mvi c,00	xchg	xchg	mov a,e	mvi c,05	xra a
next: Idax d	mov a,m	Ihld 8502	Ihld 8502	sub I	loop2: mov a,m	mov b,a
mov c,a	inx h	dad d	mov a,e	jnc loop1	inx h	loop: add c
mov a,m	add m	jnc next	add I	dcr d	cmp m	jnc next
		*				inr b
stax d	jnc next	inr c	jnc loop1	loop1: sta 8504	jc loop1	
mov m,c	inr c	next: shld 8502	inr d	mov a,b	mov b,m	next: dcr d
inx h	next: sta 8502	mov a,c	loop1: sta 8600	sub h	mov m,a	jnz loop
inx d	sta 8503	sta 8506	mov a,d	jnc loop2	dcx h	sta 8600
dcr b	mov a,c	o/p	add h	inr c	mov m,b	mov a,b
jnz next	sta 8503	8500 25 8504 89	jnc loop2	loop2: sta 8505	inx h	sta 8601
o / p		8501 31 8505 B1	inr c	mov a,c	loop1: dcr c	A4.2 nbyte num addition
8500 35	subtraction	8502 64 8506 00(cy)	loop2: sta 8601	sta 8506	jnz loop2	mvi c,04
8501 23	lxi h,8500	8503 80	mov a,c	o/p	dcr d	lxi h,8500
8570 12	mvi c,00		sta 8602	8500 36 8504 A2	jnz loop3	lxi d,8600
8570 26	mov a,m		o/p	8504 F4 8505 CB		xra a
	inx h		8500 56 8600 46	8502 94 8506 00(br)		next: ldax d
	sub m		8501 34 8601 12	8503 28		adc m
	inc next		8503 90 8603 01(cy)			mov m,a
	inr c		8504 78			inx h
	next: sta 8502					inx d
	sta 8503					dcr c
						jnz next
	mov a,c					•
	sta 8503					mvi a,00
						ral
						mov m,a
mvi c,04 xra a mov b,a lxi h,8050 loop: add m jnc next inr b next: inx h dcr c jnz loop sta 8600 mov a,b sta 8601 o/p 8050 25 8051 31 8600 200 8052 64 8601 00(cy) 8053 80	Ixi h,8500 mov a,m cma sta 8502 inx h mov a,m cma sta 8503 o/p 8500 8B 8501 36	mvi c,00 Ida 8500 cma adi 1 jnc loop inr c loop: sta 8501 mov a,c sta 8502 o/p 8500 9F 8501 00 A5.block transfer lxi h,8050 lxi d,8070 mvi b,0 next: mov a,m stax d inx h inx d dcr b jnz next o/p 8050 09 8070 11 8070 09 8051 12 8071 95 8071 12	B3.fibonacci series mvi c,03 lxi h,8500 mov a,m inx h mov d,m loop: add d daa inx h mov m,a mov a,d mov d,m dcr c jnz loop o/p 8100 00 8101 01	mvi c,06 lxi h,8500 mov a,m dcr c repeat: inx h cmp m jnc next mov a,m next: dcr c jnz repeat sta 8600	mvi c,06 lxi h,8500 mov a,m dcr c repeat: inx h cmp m jc next mov a,m next: dcr c jnz repeat sta 8600	order mvi d,05 loop3: lxi h,8500h mvi c,05 loop2: mov a,m inx h cmp m jnc loop1 mov b,m mov m,a dcx h mov m,b inx h loop1: dcr c jnz loop2 dcr d jnz loop3
		8052 24 8072 78 8072 24 8053 56 8073 67 8073 56 8054 23 8074 12 8074 23				