U19CS076 MIT ASSIGNMENT 5

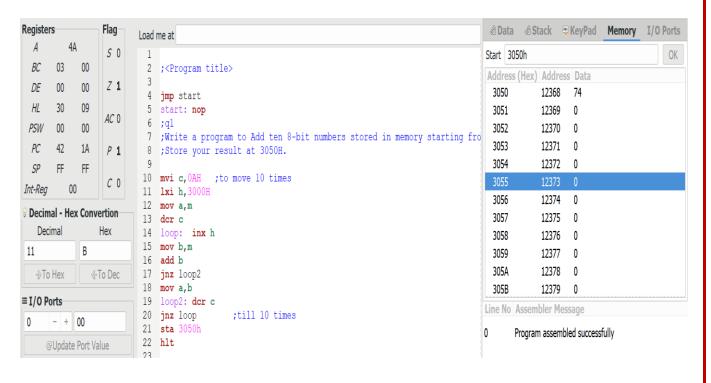
KRITHIKHA BALAMURUGAN

Q1. Write a program to Add ten 8-bit numbers stored in memory starting from 3000H. Store your result at 3050H.

INPUT BEFORE EXECUTION

d Data d S	tack 450	KeyPad	Memory	I/O Ports
Start 3000h				OK
Address (Hex)	Address	Data		
3000	12288	10		
3001	12289	1		
3002	12290	8		
3003	12291	6		
3004	12292	22		
3005	12293	9		
3006	12294	2		
3007	12295	5		
3008	12296	8		
3009	12297	3		
300A	12298	0		
300B	12299	0		

AFTER EXECUTING CODE



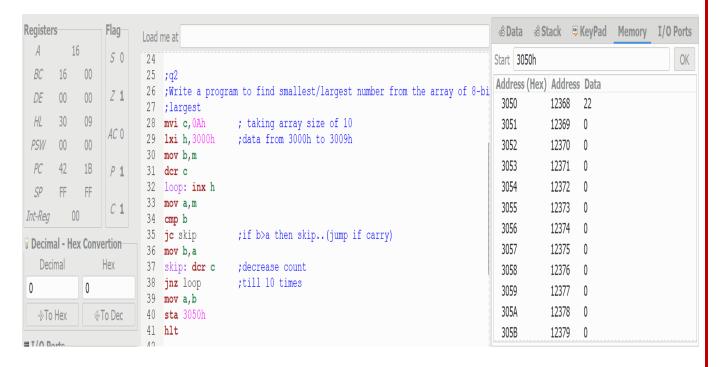
Q2. Write a program to find smallest/largest number from the array of 8-bit data. Assume suitable memory location for data and result.

INPUT BEFORE EXECUTION

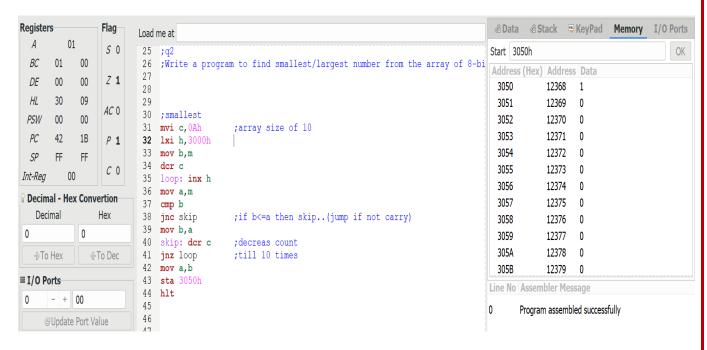
& Data ←	Stack 45	KeyPad	Memory	I/O Ports
Start 3000h				ОК
Address (H	ex) Address	Data		
3000	12288	10		
3001	12289	1		
3002	12290	8		
3003	12291	6		
3004	12292	22		
3005	12293	9		
3006	12294	2		
3007	12295	5		
3008	12296	8		
3009	12297	3		
300A	12298	0		
300B	12299	0		

AFTER EXECUTION

FNDING LARGEST ELEMENT OF ARRAY



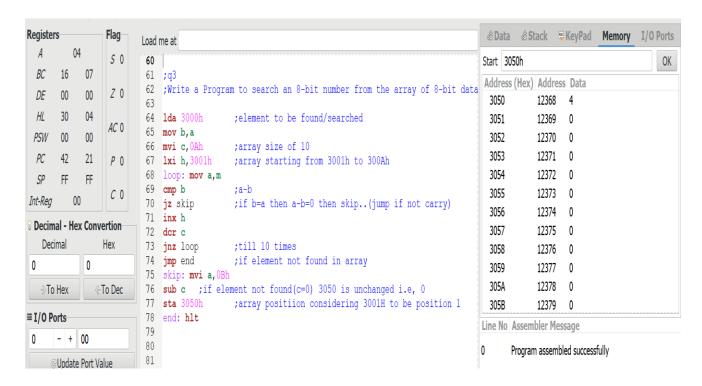
FINDING SMALLEST ELEMENT OF ARRAY



Q3. Write a Program to search an 8-bit number from the array of 8-bit data.

INPUT BEFORE EXECUTION

& Data	Stack 💆	KeyPad	Memory	I/O Ports
Start 3000)h			OK
Address (I	Hex) Address	Data		
3000	12288	22		
3001	12289	1		
3002	12290	8		
3003	12291	6		
3004	12292	22		
3005	12293	9		
3006	12294	2		
3007	12295	5		
3008	12296	8		
3009	12297	3		
300A	12298	19		
300B	12299	0		



PRINTS THE LOCATION OF ELEMENT IN ARRAY. CONSIDERING 3001 AS 1ST POSITION OF ARRAY.

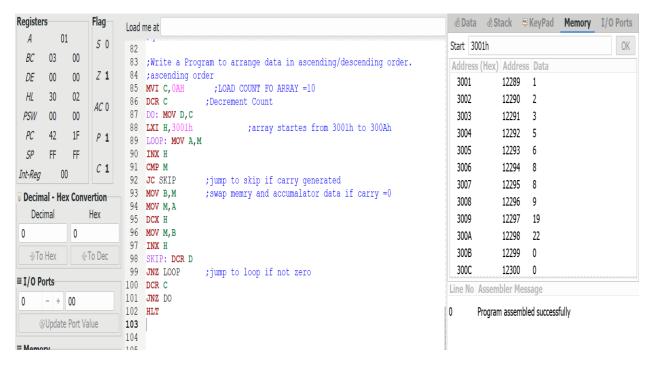
Q4. Write a Program to arrange data in ascending/descending order. Assume suitable memory location for data and result.

INITIAL VALUE BEFORE EXECUTION

🕸 Data	& Stack	KeyPad	Memory	I/O Ports
Start 3001	lh			ОК
Address (Hex) Address	Data		
3001	12289	1		
3002	12290	8		
3003	12291	6		
3004	12292	22		
3005	12293	9		
3006	12294	2		
3007	12295	5		
3008	12296	8		
3009	12297	3		
300A	12298	19		
300B	12299	0		
300C	12300	0		

AFTER EXECUTION

ASCENDING ORDER



DESCENDING ORDER

