

NAME:MOMNA KHURRAM QURESHI SAP_ID:55430

LAB12:COMPUTER ARCHITECTURE
SUBMITTED TO:MA'AM AYESHA

TASK 1

Task 1:

START:

INP

OUT

CLA

OUT

HLT

Name	Width			Data		
AC	16	0000	0000	1010	1010	
AR	12	0000	0000	0001		
Name	Width			Dat	a	
AC	16	0000	0000	0000	0000	

TASK 2

START:

INP

OUT

CMA

OUT

HLT

Name	Width		Data		
	16	0000			
AR	12	0000	0000	0001	

EXECUTING...

Enter Inputs, the first of which must be an Integer: 204

Name	Width		Data			
AC	16	1111	1111	0011	0011	

TASK 3

INP

INC

INC

INC

OUT

HLT

EXECUTING...

Enter Inputs, the first of which must be an Integer: 1

Output: 4

EXECUTION HALTED NORMALLY due to the setting of the bit(s): [HALT-BIT]

TASK 4

INP

SPA

OUT

HLT

EXECUTING...

Enter Inputs, the first of which must be an Integer:5

EXECUTION HALTED DUE TO AN EXCEPTION: There are currently no predefined inputs from the user of type long.

EXECUTING...

Enter Inputs, the first of which must be an Integer: -5

Output: -8191

EXECUTION HALTED NORMALLY due to the setting of the bit(s): [HALT-BIT]

TASK 5

INP

SNA

OUT

HLT

EXECUTING...

Enter Inputs, the first of which must be an Integer: -5

Output: 0

EXECUTION HALTED NORMALLY due to the setting of the bit(s): [HALT-BIT]

EXECUTING...

Enter Inputs, the first of which must be an Integer: -4
EXECUTION HALTED NORMALLY due to the setting of the bit(s): [HALT-BIT]