

American International University- Bangladesh (AIUB)

Department of Computer Science

Faculty of Science & Technology (FST)
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Lab Assignment-2

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COMPUTER ORGANIZATION AND ARCHITECTURE

Section: B

Course Teacher:

SAEEDA SHARMEEN RAHMAN



Lab Tasks:3

Write a program that prompts the user to enter a character, and on subsequent lines prints its ASCII code in binary, and the number of 1 bit in its ASCII code. Hint: Use 2 Procedures MAIN and TASK

Sample execution:

TYPE A CHARACTER: **A**THE ASCII CODE OF A IN BINARY IS: **01000001**THE NUMBER OF **1** BITS IS: **2**

Answer:

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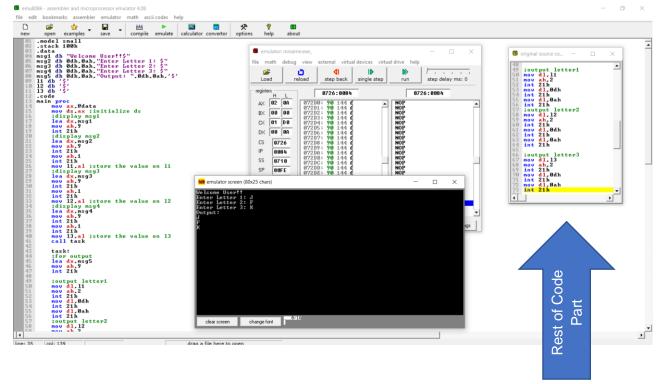


Lab Tasks:4

Write a program that gives the following output in DOS. Hint: Use 2 Procedures **MAIN** and **TASK**

Welcome User!!
Please User Enter Letter 1:
J
Please User Enter Letter 2:
F
Please User Enter Letter 3:
K
Output:
J
F

Answer:





Lab Tasks:5

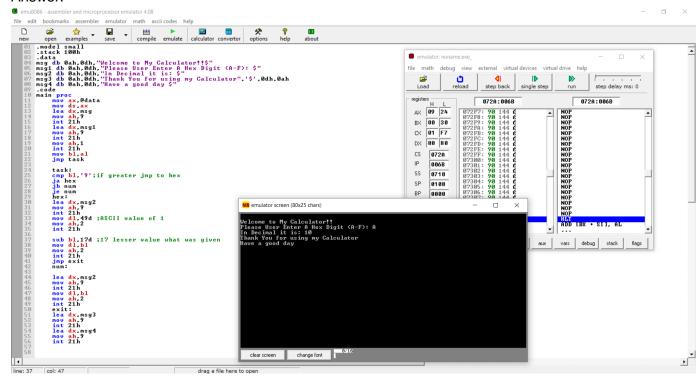
Write a program that gives the following output in DOS. Hint: Use 2 Procedures **MAIN** and **TASK**

Welcome To My Calculator!! Please User Enter A Hex Digit (A-F):

A

In Decimal it is: 10
Thank You for using my Calculator
Have a good day

Answer:





Lab Tasks:8

Write a program that gives the following output in DOS. Hint: Use 2 Procedures **MAIN** and **TASK**

Welcome To My Calculator!!

Please User Enter Digit 1:

5

Please User Enter Digit 2:

2

Output:

3

Thank You for using my Calculator

Answer: INT 21H MAIN ENDP TASK1 PROC ; print "Please enter digit MOV AH, 89H LEA DX, MSG2 INI 21H ; read digit 1 from user MOU AH, 01H INT 21H SUB AL, 30H MOU BX, AX registers BX 80 82 ; return to RET TASK1 ENDP ; call TASK procedure to get digit 1 CALL TASK1 lease enter digit 1: lease enter digit 2: ; return to calling procedu RET TASK2 ENDP END MAIN ank you for using my Calculator "Please enter digit 1:" message 09H MSG2 Rest of Code Part ; read digit 1 from user