

Lab Report

Course Code: CSE 314

Course Title: Microprocessors and Microcontrollers Lab

Experiment No: 02

Experiment Name: Write a program in assembly code to convert a number from Fahrenheit

scale to Celsius scale.

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Theory: An Assembly language program to convert a temperature value given in Fahrenheit Celsius. The Formula to be implemented is C= (F-32) *5/9. The Stack is to be used for passing the Fahrenheit value to the subroutine and for returning the calculated Celsius value back to the main program. Dynamic stack allocation is to be implemented for this both the Fahrenheit and the calculated Celsius values are to be stored in the allocated memory locations defined in the data segment.

the data segment. **Implementation Code:** INCLUDE 'EMU8086.INC' . MODEL SMALL . STACK 100H .DATA CDW? . CODE ADD AL, CL MOV BH, AL JMP INPUT EXIT: MAIN PROC

MOV AX,0

MOV AL, BH

