

KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS
COLLEGE OF COMPUTER SCIENCE AND ENGINEERING
COMPUTER ENGINEERING DEPARTMENT

COE 205 - Term 061
Programming Assignment 2

Write a program in assembly language that reads a number with a single digit as input and displays its multiplication table (multiplied by 1 to 9).

Follow the following guidelines.

1. Reading the number
 - a. Display message asking the user to enter the number
 - b. User enters the number.
2. Generate the multiplication table in an internally reserved array of 9 elements
3. Display of the result:
 - a. Convert every result using the way done in programming assignment 1
 - b. Convert the decimal digits into ASCII numbers
 - c. Output the result as: (supposing that input number was 8)

8 x 1 = 8
8 x 2 = 16
8 x 3 = 24
8 x 4 = 32
....
8 x 9 = 72

- All submissions are by email.
- Send your email with the following subject: **COE 205 PRG ASSGNT**. Subject is in uppercase letters (as shown here).
- In the body of the email, write your name and ID number.
- Also, write your name and ID number in the source code as well.
- Send your program source code only. **DO NOT SEND** the EXECUTABLES
- Your filename should be **prg2_XX.asm**; XX corresponding to your order in the roster list. Example: a student who is number 5 will send: **prg2_05.asm**
- Put your explanations in your source code file as comments.

- Grading Policy:

Program does not assemble:	10 points
Program assembles but does not do anything meaningful:	25 points
Program assembles but does work with significant problems:	50 points
Program assembles but does work with medium problems:	60 points
Program assembles but does work with minor problems:	75 points
Program assembles and works perfectly:	85 points
Comments:	Between 15 to 25 points extra if well commented.
NO Comments:	20 points penalty