***CSE 236***

***Assignment 1***

***Deadline: 8th November***

1. Write a program in Assembly language that satisfies the following conditions:

*Initially, reads a character*

*Reads a character until ‘q’ or ‘Q’ is pressed*

*If the character is a small letter (‘a’-‘z’)*

*Reads another character until the character is smaller than ‘k’ or ‘n’ is pressed*

*If any vowel is pressed (‘k’-‘z’)*

*Displays the character*

*If the character is a capital letter*

*Displays next five capital letters*

*For any other character, displays eight (8) stars (‘\*’)*

*Reads next character*

**Sample Input - Output:**

1. Pressed character: ‘d’(initial character)

Next character: ‘l’ / ‘m’ / ‘x’ / . . . (inside 2nd loop)

Next character: ‘o’ 🡪 Outputs ‘o’

Next character: ‘n’ / ‘a’ / ‘j’ / . . . (quits 2nd loop)

Next character: ‘C’ / . . . (inside 1st loop)

Outputs ‘D’, ‘E’, ‘F’, ‘G’, ‘H’ (next five capital letters)

Next character: ‘&’ / ‘?’ / ‘#’ / ‘\*’ / . . .

Outputs \*\*\*\*\*\*\*\* (eight stars)

… .. … so on

Next character: ‘q’ / ‘Q’

// do nothing (quits the program)