Q1. Input your Student ID and print it using STACK operations. Implement this using MACRO/PROCEDURE.

Q2. Write a MACRO to find the maximum and write a PROCEDURE to find the minimum between three numbers. You have to do it in a single code file.

Sample execution:

User input: 2 3 4

Output: Maximum number is 4

Minimum number is 1

Q3. Write a program that determines whether a number is divisible by the sum of its digits or not. If divisible, then print "YES" else print "NO".

Input: 123	Input: 12
Output: NO	Output: YES

Here: Sum of 1+2+3 = 6, and 123 is not divisible by 6. In the case of 12, the sum of 1+2 = 3, and 12 is divided by 3.

So, implement the logic and write the code.

Q4. Take an array of size n, then taking input from the user, sort the array in the ascending and descending order. (Those who have odd Student Id (suppose 140217), will do the ascending, and those who have even id (140216) will do the descending).

Q5. Write a program that prints the number of consonants found in a given string. A sample is given below:

Given String: umbrella
Number of consonants: 5

Q6. Write an assembly program to print the following pattern below. Assume that all inputs are single character numbers. Hardcoding the pattern inside your code will yield 0 marks.

Input	Output	Input	Output
3	* ** ***	4	* ** *** ****