

**CO222: Programming Methodology****Lab: 07**

(90 minutes)

1. Answer **all three** questions
2. **Zero** marks will be awarded for submissions that **do not compile**

**Problem 1.**

Write a C program (**E13XXXprob1.c**) that takes a number from the user and prints the following pattern.

```
./prob1
Enter N: 4
A
AB
ABC
ABCD
ABC
AB
A
```

**Problem 2.**

Write a function (**int occur (char \* word, char \* text)**) that takes a word and a text as inputs and returns number of occurrences of the given word in the given text.

For example, the given word is “And” and the given text is “I hear and I forget, I see and I remember, I do and I understand”. So the occurrences of “And” in the text are 3.

You can write your own main method to test your function. (**E13XXXprob2.c**)

**Problem 3.**

Write a program to find the occurrences of a given word in a given text. Your program should take inputs as command line arguments. So your program should take two arguments, as shown below.

```
./prob3 I I hear and I forget, I see and I remember, I do and I
understand.
The occurrences of "I" in the text is 6.
```