Assignment Week 11 CT103

C Programming

Submission:

REMEMBER: All files MUST be submitted

before you leave the lab (even if you don't get it working!)

You <u>must</u> be marked present by the lab tutor, and they <u>must</u> see your finished program before you leave

USE CORRECT FILE NAME AS PER INSTRUCTIONS

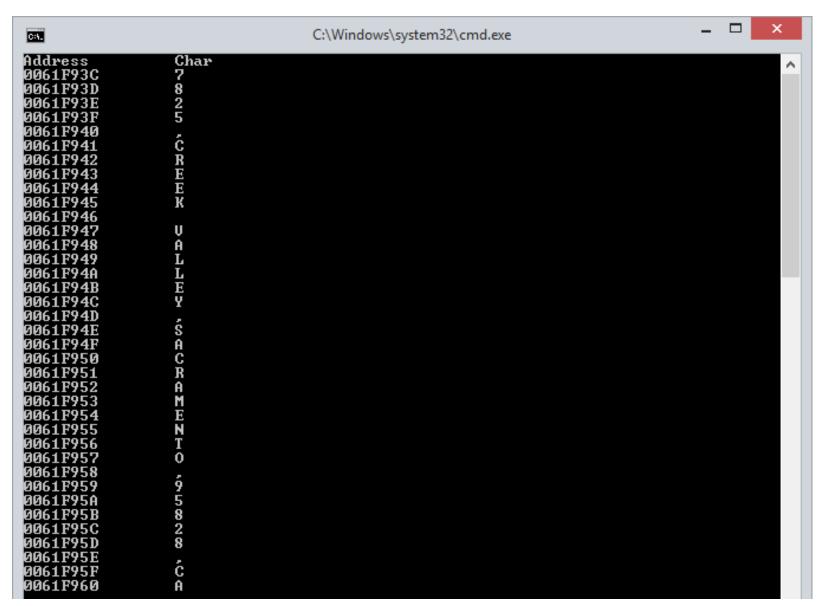
The tutors are there to help you - don't hesitate to ask for help

Assignment

• This week is the first assignment with pointers, so you are asked to write 4 functions, in increasing order of difficulty (see sample output on following pages). You are provided with the function prototypes and main – you just have to write the functions ©

```
// 1st function to do - this prints out the address and content of each
character in the input string
void charAddresses(char *string);
// 2nd function to do - this replaces all the commas in the input string with
spaces
void commaToSpace(char *str);
//3rd function to do - this prints out characters (starting at the address
provided by the input variable start) until a space is reached
void printWord(char *start);
// 4th function to do - most difficult
// starting from the first character in the input string, each call to
"nextWord" should return the next word in the string
// e.g. if the input string is "Hi there everyone" :
// first call to nextWord should return the address of the letter 't' of
"there"
// second call to nextWord should return the address of the first letter 'e'of
"everyone"
// third call to nextWord should return NULL
char *nextWord(char *start);
```

Sample Output:



Sample Output:

```
Without commas:
7825 CREEK VALLEY SACRAMENTO 95828 CA
First Word
7825
Second Word
CREEK
Third Word
VALLEY
7825
CREEK
VALLEY
SACRAMENTO
95828
CA
Press any key to continue . . .
```