

## Programming – DT282/1 & DT228/1

### Lab 3 – Tuesday, October 6<sup>th</sup>, 2015

**Note:** You are expected to finish all programmes in your own time if you do not get these done during the lab session. This is your own responsibility.

### Keyboard Input (i.e. Standard Input)

**NB:** You must use comments, white-space and indent your code for all questions

Write separate programs to do the following:

1. Ask the user to enter 3 numbers and display these on separate lines.
2. Ask the user to enter 2 characters. Display these on the screen. Change your code and see what happens if you use %d as the delimiter for displaying these letters.

What happens if you press the Space key or hit Enter twice when entering a letter? Be careful!!

Change your code and use %1s instead of %c in your scanf(). Does this fix the problem? Check it out.

3. Write a program that asks the user to enter an integer between 1 and 100. Check whether the integer is even or odd and print a message on the screen stating "Number x is Even" or "Number y is Odd".
4. Ask the user to enter 3 float numbers (numbers with a decimal part). Display the 1st correct to 4 decimal places, the 2nd correct to 3 decimal places, and the 3rd with no decimal places on separate lines.
5. Write a program similar to Q2 above. However this time, use the *getchar()* and *putchar()* functions to read the characters from the keyboard and output them onto the screen.
6. Write separate programs for each of the following:

Chapter 4 - Q2, Q3, Q4, Q5, Q6 (be careful with your use of brackets with Q6)

(Remember to save your files with a .c extension (e.g. Chap4Q2.c, Chap4Q3.c, etc., .....))