

## Programming – DT282/1 & DT228/1

### Lab 7 – Tuesday, November 10<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.

### Arrays (part 2)

**Remember:** Use Symbollic names in your programs. Do not hard-code.

Write separate programs to:

1. What is in a[8] after the following code is executed?

```
for (i = 0; i < 10; i++)
{
    a[i] = 9 - i;
}
for (i = 0; i < 10; i++)
{
    a[i] = a[ a[i] ];
}
```

Include this code in a full program, compile and run it. Display the contents of a[8] to see its contents. Do you understand how it works and what is happening? Step through the process on paper to understand it.

2. Write a program that uses a 3x2 (2-D) array. Your program must do the following:
  - a) Enter values into the array
  - b) Display the values in the array
  - c) Find the smallest & largest value and display these
  - d) Calculate the average of the values and display this
3. Chapter 7 - Q4 (use a 1-D array), Q5, Q9