# Assignment
## CT103
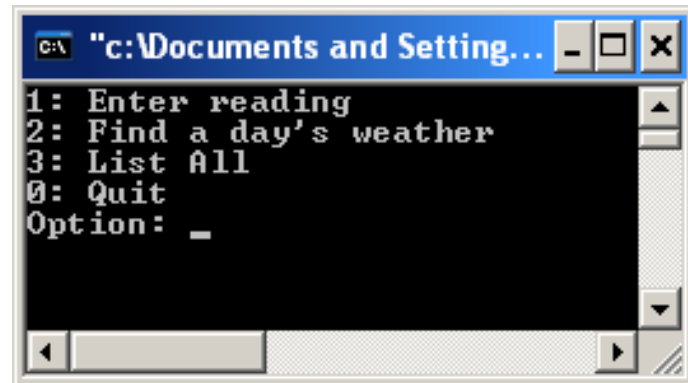## Programming

Lab Week Beginning 16th February 2015

# Description of Problem (Part 1)

- *Write a program that stores daily weather data (date, min temp, max temp,rainfall, description of the weather)*

- *You should create a data structure to store the data*

- *You must store the data in a binary file*

- *When you open the data file, you must not overwrite the existing data –new records must be appended*

- *Your program must function as per the sample output*
  - *An option to add a reading for a day*
  - *An option to find and print out the weather reading for a particular date*
  - *An option to list all readings in the file*
  - *An option to quit the program*

```
c:\ "c:\Documents and Setting...  _ □ ×
1: Enter reading
2: Find a day's weather
3: List All
0: Quit
Option: _
```

# Sample i/o

```
"c:\Documents and Settings\o_molloy\My Documents\Visual Studio Pr...
1: Enter reading
2: Find a day's weather
3: List All
0: Quit
Option: 1
Enter date (dd mm yyyy): 12 02 2014

Enter minT maxT rainfall: 3.0 6.8 12.4

Enter description: Cold and damp
1: Enter reading
2: Find a day's weather
3: List All
0: Quit
Option:
```

```
"c:\Documents and Settings\o_molloy\My Documents\Visual Studio Projects\ct103\Debug\ct...
1: Enter reading
2: Find a day's weather
3: List All
0: Quit
Option: 1
Enter date (dd mm yyyy): 12 02 2014

Enter minT maxT rainfall: 3.0 6.8 12.4

Enter description: Cold and damp
1: Enter reading
2: Find a day's weather
3: List All
0: Quit
Option: 2
Enter date (dd mm yyyy): 10 10 2010
Weather for 10/10/2010:
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Minimum Temperature: 1.20
Maximum Temperature: 3.30
Rainfall: 4.0mm
Description: rainy


1: Enter reading
2: Find a day's weather
3: List All
0: Quit
Option:
```

```
"c:\Documents and Settings\o_molloy\My Docu...
1: Enter reading
2: Find a day's weather
3: List All
0: Quit
Option: 3
Weather for 12/10/1987:
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Minimum Temperature: 4.50
Maximum Temperature: 12.30
Rainfall: 23.4mm
Description: very


Weather for 10/10/2010:
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Minimum Temperature: 1.20
Maximum Temperature: 3.30
Rainfall: 4.0mm
Description: rainy


Weather for 11/10/2010:
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Minimum Temperature: 3.40
Maximum Temperature: 12.30
Rainfall: 0.0mm
Description: dry


Weather for 13/10/2014:
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Minimum Temperature: 4.50
Maximum Temperature: 8.90
```