**Assignment 2**

**Serialization**

**Weighting: 5%**

**Instructions**: Complete the following exercises and submit in a Word document through Moodle (copy and paste the code into the document). The Word document should consist of (1) a header sheet with your name, student number, class and assignment number (2) the source code you have created (3) a screen shot of the final outputs.

**Part 1: (65%)**

Create a Phone class, and the following Phone instances in a main class:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Make | Model | Memory (GB) | Camera (MP) | Screen Size (Inches) | Smart | Price (€) |
| Sony | Experia X | 32 | 12.5 | 4.6 | Yes | 150 |
| Sony | Experia Z | 64 | 14.2 | 5.6 | Yes | 175 |
| Samsung | Galaxy M | 64 | 14.5 | 5.4 | Yes | 180 |
| Nokia | 3330 | 16 | 13.2 | 2.3 | No | 90 |
| Motorola | M1 | 8 | 11.3 | 4.9 | Yes | 100 |
| IPhone | 6 | 32 | 13.5 | 6.4 | Yes | 250 |
| Alcatel | A3 | 8 | 9.3 | 2.4 | No | 50 |

Serialize all objects into “phone.ser”, and deserialize.

Delete the Alcatel object, and add a new phone to the list.

**Part 2: (35%)**

Create a GUI, when a button is pressed, displays (show) all phone objects in a text box. (One text box will suffice).

When a second button is pressed, clear all values from the text box (hide).