CS4112 Lab Exercises 1

- Recall the following question from tutorial set 2. In this lab you should implement and test your solution to the following questions. Given $A = \{1, 2, 3\}$ and $B = \{2, 4, 5\}$
 - 1. Write a java code segment that will store these sets as arrays
 - 2. Extend this code segment to output the union of these sets
 - 3. Write a separate java code function that will take the 2 arrays as parameters and output the intersection of these sets
 - 4. Extend this function such that $A \cap B$ is stored in a separate array
- Test your program with different values for the sets A and B. For example, test your program where A and B contain the same elements.
- Try to handle the situation where either A or B contains duplicate elements, e.g. $A = \{1, 1, 2\}$. Remember duplicate elements can be removed from the set so in the example above $A = \{1, 2\}$.
- As an exercise for the next lab try to adapt your java application program so that the arrays A and B are requested as input from the user.
- NOTE: Please keep a copy of all your lab work. This will become a portfolio which you will be asked to submit at the end of the semester. To track your performance I may also attend the labs from time to time to check any or all of this work.