Department of Computer Science
The City College of CUNY

CSc 22100 F (37716): Software Design Laboratory [Spring 2017]

Exercise 1

A printout showing the problem, solution method, codes developed and outputs produced is due during and before the end of the class on Wednesday, 22 February 2017. The deadline is strictly observed.

Using GUI components discussed in the class, you are required to develop a Java application that displays a Venn diagram showing the intersection of two sets A and B represented by ovals:

a. The code is applicable to rectangular panels of variable height and width;
b. The sets may or may not be intersecting;
c. The ovals dimensions should be proportional to the panel height and width;
d. The ovals have different colors of your choice;
e. If the sets are intersecting, then the overlapping area will have a different color;
f. The diagram is properly labeled.

The output[s] should illustrate the conditions stated above and show all possible situations ($A = B$, $A \cap B = \Phi$, $A \cap B \neq \Phi$, where $\cap$ denotes the intersection of two sets and Φ is the empty set).

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