**Discrete Structures**

**CS 241 - 001**

Department of Physical and Computer Sciences

Medgar Evers College

# Workshop Lab 2: Predicate Verbal Arguments

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**Directions: Write or type solutions on a separate paper(s) and attach this paper to the front of your work. For each verbal argument translate it to a predicate wff and prove that it is valid.**

1. Diligent people succeed. No quitter succeeds. Some quitters, however, are content. Therefore, no quitter is diligent.

2. Rational numbers are real numbers. All integers are rational numbers. Hence, some real numbers are integers.

3. There is a writer who is not nearsighted. Everyone who wears glasses is nearsighted. Furthermore, everyone either wears glasses or wears contact lenses. Therefore, some writer wears contact lenses.

4. Software engineers are both mathematicians and designers. Mathematicians are analytical. Designers are analytical as well. Hence, Software engineers are analytical.

5. To qualify as a citizen of a state for purposes of diversity jurisdiction, a party must currently reside in that state and intend to remain there indefinitely. Here, the plaintiff does not currently reside in the state. Therefore, the plaintiff cannot be a citizen of the state for jurisdictional purposes.

Extra Credit If the respondent is not credible, then the statement of the respodent should not be judged to be genuinely plausible. The respondent John has been proven to be a liar. Liars are not credible. Therefore, the statement of the John should not be judged to be genuinely plausible.