

ITCO-620 Object-Oriented Applications

Unit 4 Paper Assignment Option

This document details the option to write a paper for the Unit 4 “Individual Project” assignment instead of the posted course assignment. The grading rubric for this assignment is on the last page of this document.

Preparation

To complete this assignment, refer back to the Unit’s assigned readings and conduct additional research via the AIU Library and other sources as needed.

As evident in the grading rubric, you will be required to demonstrate critical thinking in your paper.

Deliverable

Create a 4–6-page MS Word document following APA guidelines (first person should not be used). Write this document for a technical audience.

Research and answer the following components:

1. **Language Comparison.** Research the following programming languages: Java, JavaScript, C#, and Python. Provide a comparative analysis documenting their capabilities, strengths, weaknesses, and suggested uses. Make a recommendation for type(s) of applications that each language is most suited for.
2. **IDE Comparison.** Research integrated development environments (IDE) that work with the Java programming language. Provide a product comparison including their capabilities, strengths, and weaknesses. Create your own rating scale and rate each one along with your justifications.
3. **Open-Source.** Research the concept of using open-source software for business software. Explain the concept, advantages, disadvantages, and any related ethical issues.

Note: the title and reference pages do not count toward the page length requirement.

Save your document with the course, assignment, and your name (e.g., ITCO-620-_Unit4_IP_Neo_Anderson.docx). Submit your document for grading. Refer to the grading rubric for criteria your instructor will use to grade your submission.

Grading Rubric – Unit 4 IP (Paper)

Criteria	Meets Standard	Possible Points
Language Comparison	Includes an extensive description and analysis.	20
IDE Comparison	Includes an extensive description and analysis.	20
Open-Source	Includes an extensive description and analysis.	20
Critical Thinking	Assignment demonstrates critical thinking in one or more of the following ways: <ul style="list-style-type: none">• Demonstrate justified positions• Generating original thought• Conclusions based on analysis• Evaluation of key concepts• Synthesis of ideas• Or other higher order thinking skills	35
APA	Title and reference pages are included. Paper, citations, reference pages, and sources are formatted in current APA style (0-1 errors). Body of paper is 4-6 pages.	15
Grammar, Spelling, and Mechanics	Correct grammar, spelling, and mechanics are used throughout the assignment. There are 0-1 errors in grammar or spelling that distract the reader from the content.	15
Total		125