

ITCO-620 Object-Oriented Applications Paper Unit 2 Assignment Option

This document details the option to write a paper for the Unit 2 “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. **Programming Paradigms.** Research the functional, procedural, and object-oriented programming paradigms. Compare, contrast, and detail the most appropriate uses of each paradigm in modern programming.
2. **Language Analysis.** Research a minimum of two different programming languages for each of the three programming paradigms listed in item 1 above. Provide details on why each of those languages are ideally suited for the specific programming paradigm. You should have 2 languages for each of the 3 paradigms.
3. **Position Statement.** Based on your research results from items 1 and 2 above, write a formal recommendation selecting one programming paradigm and one programming language. Assume you are the Software Development Manager at a large fintech (Financial Technology) company, and you have been asked by your CIO to recommend a specific programming paradigm and a primary programming language. Format this part of the assignment as an internal email to your CIO.

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-_Unit2_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 2 IP (Paper)

Criteria	Meets Standard	Possible Points
Programming Paradigms	Includes an extensive description and analysis.	20
Language Analysis	Includes an extensive description and analysis.	20
Position Statement	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