

**COP-2800: Java Programming**

**Assignment 5-7**

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# Document Version Control

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# Technical Specifications

## Purpose of Technical Implementation

5.7 (Financial application: compute future tuition) Suppose that the tuition for a university is $10,000 this year and increases 5% every year.

In one year, the tuition will be $10,500.

Write a program that computes the tuition in ten years and the total cost of four years’ worth of tuition after the tenth year.

## Psuedocode

Start

Set up double rate to 1.05

Set up double cost to 10000

Set up double fourYearsAfterTenth to 0

Start for loop to 14 iterations

Cost \*= rate

If iteration is equal to 10

Print “Tuition at tenth year” + cost

If iteration is greater than 10

fourYearsAfterTenth += cost

End loop

Print "Four years of tuition after tenth year: "+fourYearsAfterTenth

## Screenshot of working code

A screenshot of a computer program

Description automatically generated