

**COP-2800: Java Programming**

**Assignment 6-2**

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# Document Version Control

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| 0.1 | 2022 JAN 9 | Francis Fiskey | First Draft |

# Technical Specifications

## Purpose of Technical Implementation

The purpose of this implementation is to provide an efficient way to calculate the sum of all digits in a given integer.

## Psuedocode

Program Start:

Request a number from User

Start scanner class to allow user to enter number

Save number for usage later to a variable named “chosenNumber”

Close scanner class to limit memory usage

Pass chosenNumber to function called “sumDigits”

Sum Digits Function:

Create variable called “answer” that will store the answer

iterate over number by converting to a string to grab length

divide number by location of current iteration (this allows the usage of powers)

save the remainder to variable known as “exported”

Add the value of exported to answer

Provide answer as output

Display answer to user

Program end

## Screenshot of working code

Text

Description automatically generated