**CSF213 Object Oriented Programming**

**Extra Practise Problems**

**Week 1 Introduction to Java**

**Note: These problems can be done at students' own pace outside the lab hours.**

1. Write a program that calculates and prints the product of three integers.
2. Write a program that displays the numbers 1 to 4 on the same line, with each pair of adjacent numbers separated by one space.

Write the program using the following techniques:

a. Use one System.out.println statement.

b. Use four System.out.print statements.

c. Use one System.out.printf statement.

1. Write a program that asks the user to enter two strings, obtains them from the user and computes the length of the two strings and displays the larger string followed by the string “is larger”. If the lengths of the strings are equal then print “Strings are of equal length.”
2. Write a program that reads two integers, determines whether the first is a multiple of the second and print the result.
3. The process of finding the largest value (i.e., the maximum of a group of values) is used frequently in computer applications. For example, a program that determines the winner of a sales contest would input the number of units sold by each salesperson. The salesperson who sells the most units wins the contest. Write a Java application that inputs a series of 10 integers and determines and prints the largest integer.

Your program should use at least the following three variables:

a. counter: A counter to count to 10 (i.e., to keep track of how many numbers have been input and to determine when all 10 numbers have been processed).

b. number: The integer most recently input by the user.

c. largest: The largest number found so far.

1. Write a program to count the number of repeated digits in an entered number and display the repeated digit and its count along with first and last digits.
2. Write a program to find the sum of even and odd numbers in the given number.

1. Write a program to return the second word of a given string in upper case. Extend the

problem to print any word in upper case.

1. Write a program to check whether a given string is a palindrome. Extend it to check for

any word in a given sentence.

1. Given two sentences, Display the words present in both the sentences. Extend it to

create groups of the same words. Extend to group words with the same frequencies.