**CSE101/CSE103**

*(Solve the following problems in R-studio.)*

1. Take 3 inputs from the user: x, y, z. Write a program in R that prints the numbers that are multiples of both x and y from 1 to z using loops.(while or for loop)
2. Write a program in R that takes a number, n and prints a triangle with n steps like the following:

Hint: Use cat function instead of print() without a new line.

**Sample Input:**

6

**Sample Output:**

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1. Write a program in R that takes a string input from the user and prints the characters of odd numbered indices using a loop.

**Sample Input:**

Programming

**Sample Output:**

P

o

r

m

i

g

**Sample Input:**

Computer

**Sample Output:**

C

m

u

e

1. Write a program in R that would take an integer input from the user and display if that particular number is a prime number or not.

A number is a prime number if it is divisible only by itself and 1 (example: 2, 3, 5, 7, 11).

1. Write a R program to update the last element with “R programming” of the following list and prints the new list:

mylist= list("John","Denver","Max",1,2,4,8,9,11,list("Java"))

1. Write a R program to add a new item "Ford" after the third element of the given list and prints the new list of cars:

super\_cars = list("Ferrari","Audi","Porsche","Lamborghini","Nissan")

1. Write a R program to create an array of two 3x3 matrices each with 3 rows and 3 columns from a given vector and print the second row of the first matrix of the array.

Given vector: vc1 = c(10,11,12,13,14,15)