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:

Sample Input:

Computer

3.

	6
	Sample Output:
	*
	**

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
	0
	r
	m
	i
	g

Sample Output:

С

m

u

е

4. 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).

5. 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"))
```

6. 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")
```

7. 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)
```