**Task1:**

Write a new program which will create a list with 10 city names.

* Print the list with all the items showing on one line.
* Insert a new city in index position 4
* Print out the fourth item in the list by it index position.
* Print out the sixth item in the list by its value.
* Remove any two cities from the list.
* How can you print the 4th,5th,6th and 7th cities in the list.
* Return the length of the list.
* Sort the list in ascending order.
* Sort the list in descending order.

**Note**: for every list manipulation print the list

**Task2**

You have been provided with the following string of characters stored in the variable as shown below .

userString = " Python is my third programming language"

* Print the 1st, 3rd, 6th, 9th and 11th characters from the string (userString) provided above.
* Return the length of the string.
* Slice the string to print between the 3rd and 11 characters.
* Omit the last and then second to last characters from your string in your printout.
* Print up to the 15th character from your string.
* Find the start index position of the substring “third”.
* Print out the string in all capital letters.
* Print out the first letter of all the sub strings in capital letters.
* Replace the substring “third” to so that the string will reflect if it is your first or second…etc.

**Task3**

Write a program that will ask the user for how many sweets are in the bag.

* It should also ask how many people the sweets should be shared between.
* Use the whole number division to work out how many sweets each person should have and use the remainder division to find out how many sweets would be left remaining.
* For example if there are 14 sweets in the bag and this was to be divided between 3 people then the programme should display “There will be 4 sweets each and there would be 2 left over.”

**Task4**

# import random.

from random import randint

randNums1 = randint(1,6)

randNums2 = randint(1,6)

print("The random number is ",randNums1)

print("The random number is ",randNums2)

print("\nThe random number are ",randNums1, randNums2)

Complete the code provided above to use if and else:

* To print out if a double is thrown.
* To print out if a double is not thrown.

**Task5**

Modify your code in task 4:

* To ask for one user input between 1 and 10.
* Compare the user input with the random generated number.
* Print out if a double is thrown.
* Print out if a double is not thrown.