

1. Print all prime numbers between m and n
2. Generate a random number between the range n1 and n2 , then find sum of all natural nos till that number
3. Generate a random number between the range n1 and n2 and store in variable n3, then find generate n3 random number and find their sum
4. Create a list with 100 random numbers and perform the following tasks.
  - a. Display first 10 numbers
  - b. Display last 10 numbers
  - c. Display first 10 even numbers
  - d. Sort the list in ascending and descending order
  - e. Search a given key element in a list
  - f. Print the data type of a list?
  - g. Insert an element at a particular position
  - h. Append an element at end of the list
5. Create two list with elements 10 and 10.
  - a. Add the elements of second list to first
  - b. Remove the second item from the list using pop function
  - c. Remove the last item
6. Create a list of fruits
  - a. Based on a list of fruits, form a new list, containing only the fruits with the letter "a" in the name.
  - b. Only accept items that are not "apple"
7. Create a two matrices
  - a. add two matrix with a for loop
  - b. Adding and subtracting values to a matrix with list comprehension
8. Create a dictionary with key value pairs as country with its capital
  - a. Print the capital of a given country
  - b. Print the list of the values of dictionary and a list of the keys
  - c. Add a new item to the original dictionary
  - d. Print a list of the country:capital pairs
9. Create a dictionary that contains three dictionaries related to student information having name, usn, year of passing as parameters and Print the name of 2 student
10. Implement a TIC-TAC-TOE game.

Example:

