**Question 1:** Write a Python program to find the largest and second largest of n numbers.

Assume n>=3 and all the numbers are distinct. No sorting algorithm should be

used. (7 marks)

**Question 2:** What are arithmetic operators used in Python? Explain each using an example (7 marks)

**Question 3:** Write a Python program to print the odd composite numbers between m and n,

where m and n are positive integers greater than 1. (8 marks)

**Question 4:** Define the following

i) Atoms

ii) Identifiers

iii) Literals (6 marks)

**Question 5:** Write a Python code to add two matrices using list. (6 marks)

**Question 6:** Write a Python program to reverse a string and print whether its palindrome or

not. (8 marks)

**Question 7:** How to create Dictionary in Python? Write a Python program to read and

display a sparse matrix using dictionary. (7 marks)

**Question 8:** Write a program to

i) convert all small letters in a string into capital letters

ii) find the occurrence of a given substring. (7 markS

**Question 9:**Write a Python program to create a lambda function that adds 15 to a given number passed in as an argument, also create a lambda function that multiplies argument x with argument y and print the result

**Question 10:** Write a recursive Python function that has a

parameter representing a list of integers and returns the maximum

stored in the list. Thinking recursively, the maximum is either the

first value in the list or the maximum of the rest of the list,

whichever is larger. If the list only has 1 integer, then its maximum

is this single value, naturally

**Question 11:**write a python program using list to store and display the average of N

Integers accepted from the user

**Question 12:**Write a Python program to create a list by concatenating a given list which range goes from 1 to n.

**Question 13:Write a Python program to compute the nth Fibonacci number . Use a recursive function for the implementation.**

**Question 14:Write a recursive function to calculate the sum of numbers from 0 to 10.**

**Question 15:** what is recursion? Write a recursive function to find the factorial of a number.

**Question 16:** write a program using function to check the type of a triangle by getting the values from user

**Question 17**: Write a Python program to check whether a list contains a sublist

**Question 18**:Write a Python program to get the frequency of the elements in a list

**Question 19**:Write a python programme to find second largest number in a list .

**Question 20**: Write a python programme to count the number of elements in a list with in a specific range.

**Question 21**.Write a Python program to find the second smallest

number in a list.

**Question 22**.Write a Python program to select an item randomly from a list.

**Question 23 :** Write a python program

to find the list of words that are longer than n from a given list of words.

**Question 24:** Write a python function that takes two lists and return True if they have at least one common member.

**Question 25**:Write a recursive function to print all armsrtrong numbers from 1 to n.

**Question 26:**Write a python function to accept a sentence from the user and print all the words which begins with vowels.

**Question 27:** Write a Python program to clone or copy a list

**Question 28:**  Python program to find smallest number in a list

**Question 29:** write a program to find ķthe second largest number in a list

**Question 30: write a python program to convert a tuple to a string**

**Question 31:Write a Python program to get the frequency of the elements in a list**

**Question 32:Write a program to append a list to the second list.**

**Question 33:Write a python program to generate all sublists of a list.**

**Question 34:Write a Python program to clone or copy a list**

**Question 35:Write a python program that will count the number of capital letters in a file.**

**Question 36 : Write a Python program to turn every item of a list into its square**

**Question 37: write a python program to check whether an element exist within a tuple**

**Question 38 : Create a package which should have 3 modules. These**

**modules contain at least one function. The functions accepts at least**

**one argument string and does operations on the text(String), like**

**searching, reversing, changing case to full upper(all letters are**

**uppercase), changing case to full lower(all letters are lowercase),**

**Alternate upper and lowercase(Eg : HeLlO), etc.(You can add more**

**operations if you want.)**

**Question 39:write a python programme to check whether two lists are circularly identical**

**Question 40:write a python programme to count the number of elements in a list with in a specified range**

**Question 41 : Write a python program to get unique values from a list**

**Question 42:what is recursive function in python**

**Question 43:write a program to remove all zeros from a given number(From any position).**