Fifth Series of Exercises

# Recursive functions Exercises:

1. Write a program that takes two numerical values, one as a number and another one is power with a recursive function which calculates and returns the value of number to that power integer.
2. Write a program that calculates and shows the n’th Fibonacci sentence with a recursive function.

# Arrays Exercises:

1. Write a program that takes an array with integer values and shows the greatest number among the array integers.
2. Write a program that takes an array with integer values and stores the even numbers of the integers in an array and odd numbers as well, and then these two arrays will be shown.
3. Write a program that takes a 2-D array with integer values, and adds every element of each column (apart from the first element) with the first element of that column and stores them in another array and shows them.

# Recursive and Arrays (Mixed) Exercises:

1. Write a program that shows the first English alphabet letter which is a capital letter and it’s stored in an array given by user. (using Recursive function method)
2. Write a program that takes an array of English letters and using a Recursive function, stores the inversed main array into another array, and then program shows the inversed array.

Professor: Mr. S. AmirHossein A. E. Tabatabaee Teacher Assistant:

Alireza Boroon 2022/01/07