

North Western University, Khulna



User Manual

Course Title: Data Structure Laboratory.

Course Code: CSE-2104

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Introduction

An array is a special variable, which can hold more than one value at a time. It is a collection of elements of a similar data type. Arrays in data structures help solve some high-level problems like the "longest consecutive subsequence" program or some easy tasks like arranging the same things in ascending order.

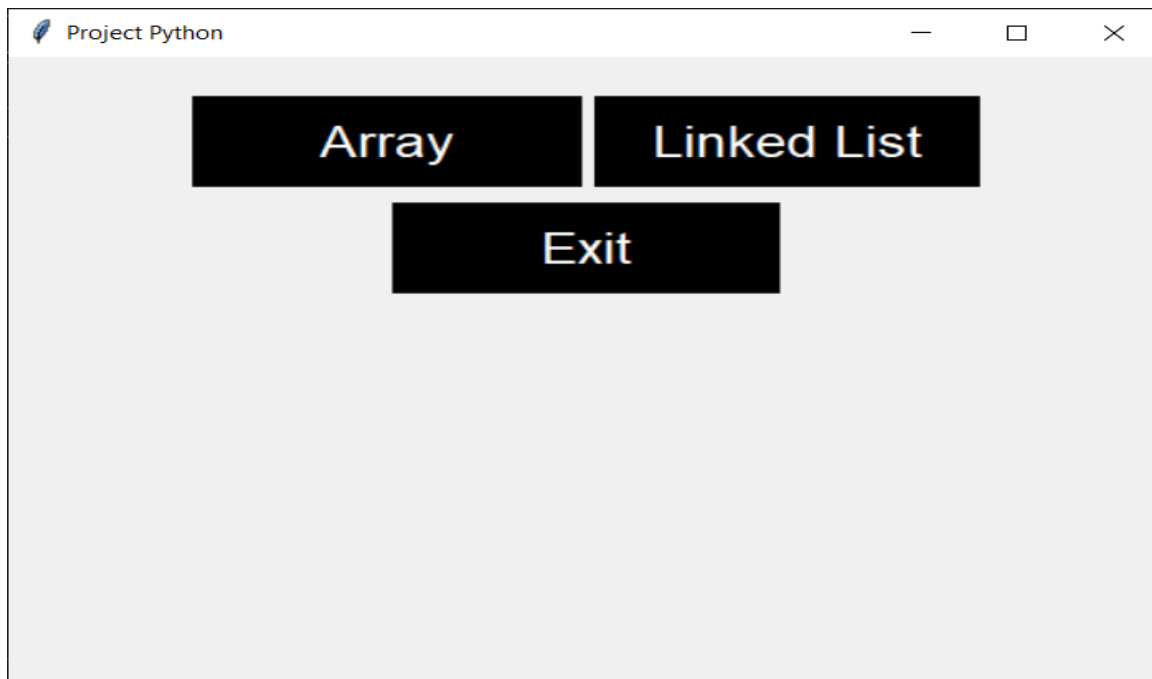
Objective

The purpose of this lab project was to create a GUI for an array. Python offers multiple options for developing GUI (Graphical User Interface). Out of all the GUI methods, Tkinter is the most commonly used method. It is a standard Python interface to the Tk GUI toolkit shipped with Python. Python with Tkinter is the fastest and easiest way to create GUI applications. In this lab project, we used the Tkinter method.

Description

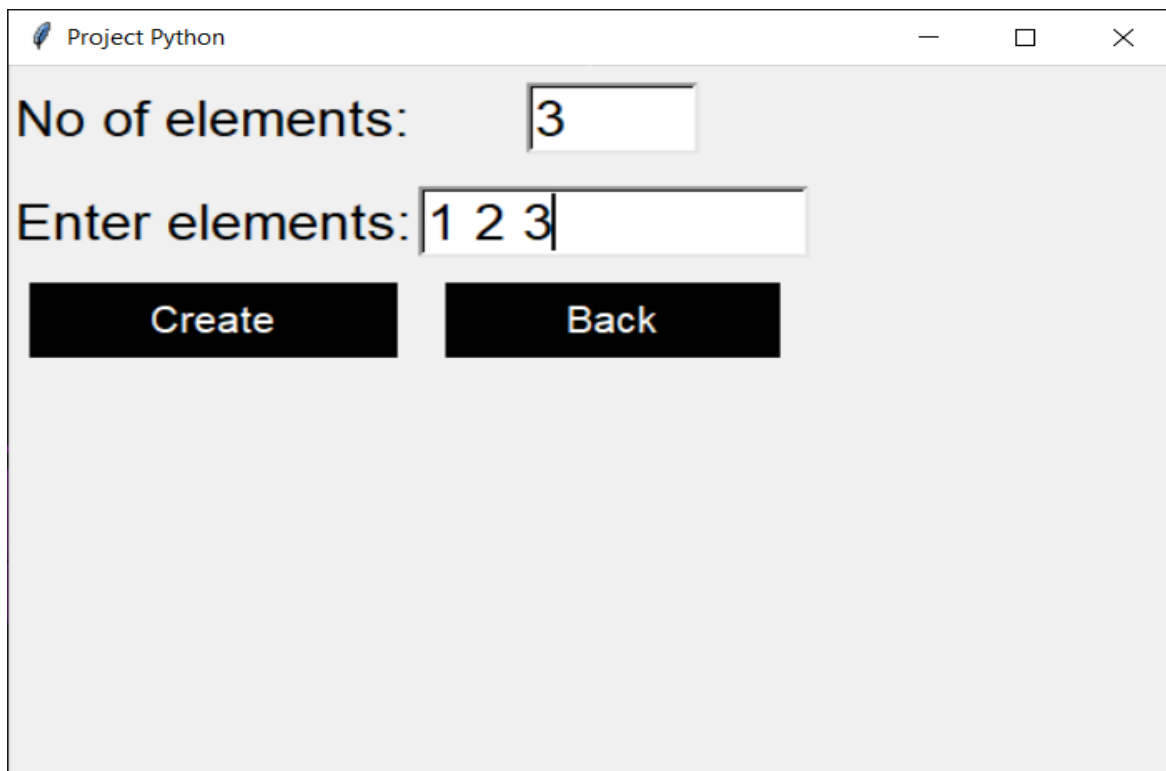
This is the user interface of Python Tkinter. It represents the array.

GUI:

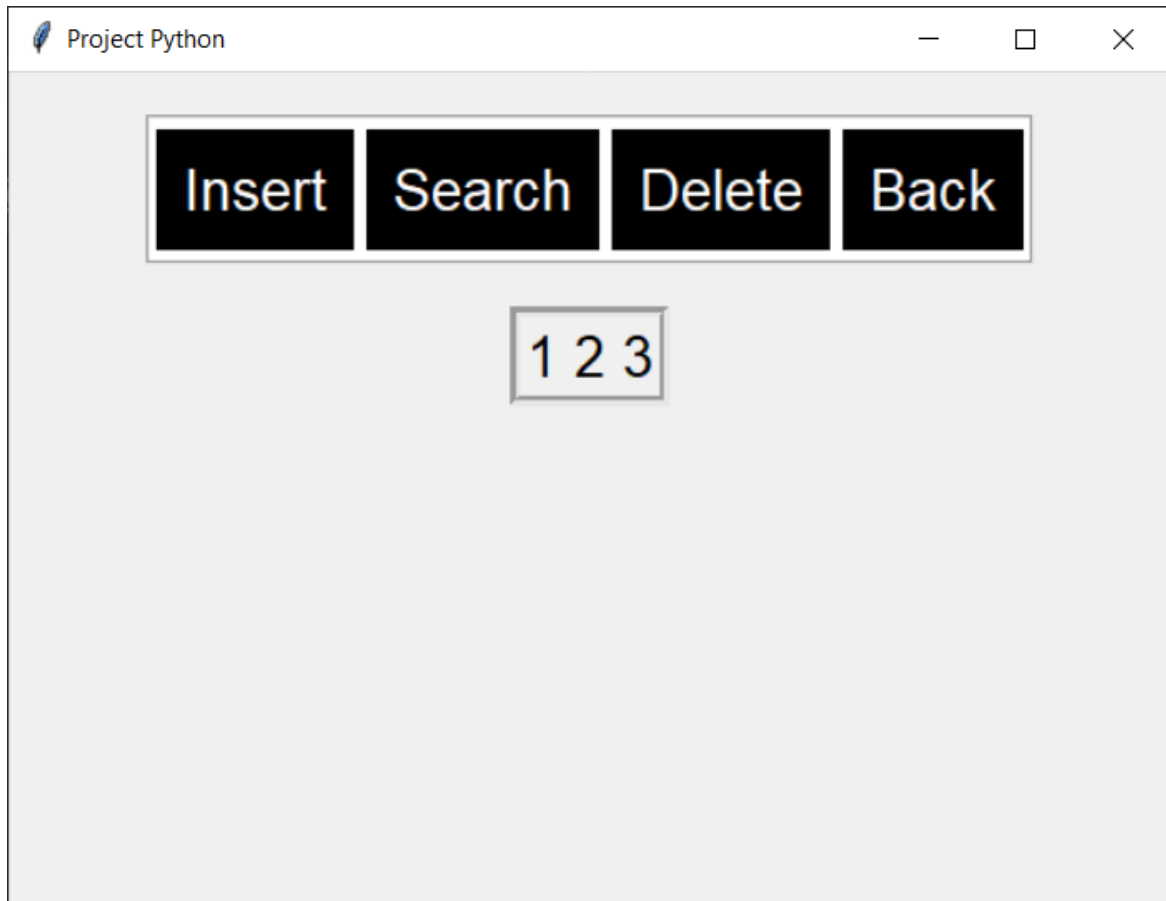


Array:

By pressing the Button “ARRAY” users are able to go to the next page.

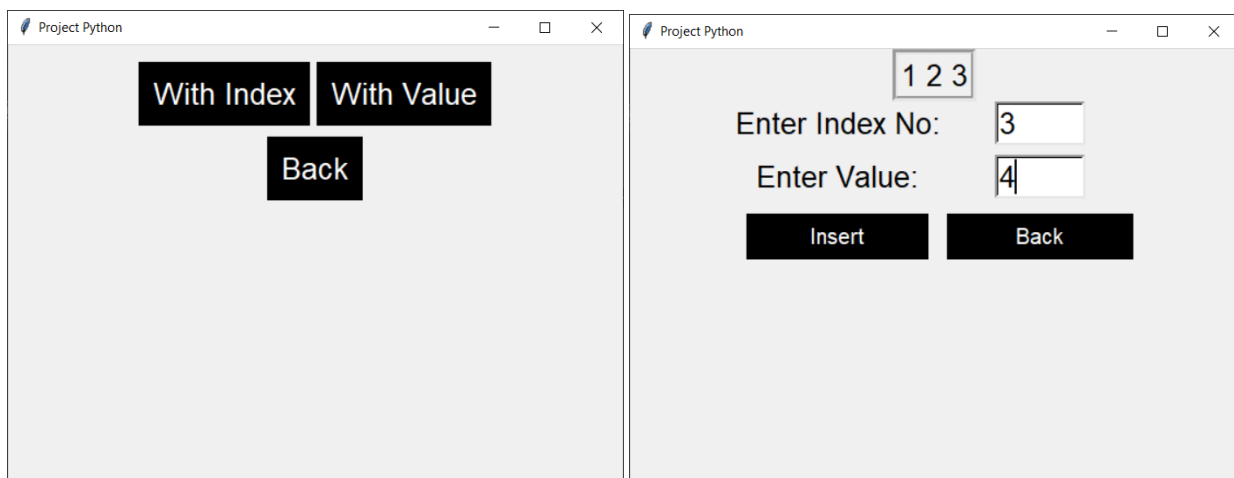


User Input: The user can input array elements here.



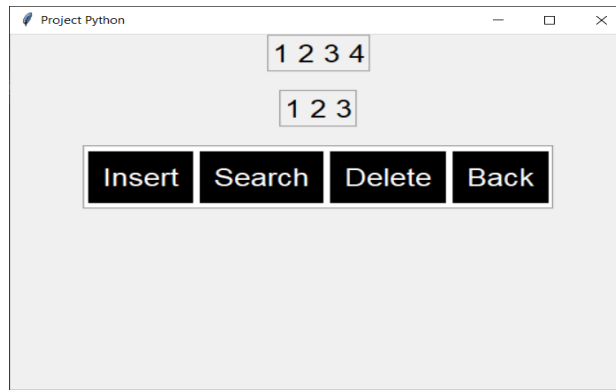
Press the CREATE Button to create the Array.

By pressing INSERT, SEARCH, and DELETE button user can Insert, search and delete the array elements respectively.





Press the back button for backward



Dependencies

Visual Studio Code IDE: Visual Studio Code IDE quickly and easily runs Python code. For building the project we use python language. After installing all the extensions for Python language in visual studio code the project run successfully.

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