Lab 08
Arrays & Strings (2)

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Lab objectives

After completing this lab, the students should be able to

- Use multiple arrays having different data types in a single program
- Manipulate string data type and apply different built-in function (Defined in string.h library file)

Task: 1

Develop a C++ program for a banking system that receives amount in figure from the user and displays it in words. For example, if the user enters 100; the program should display *One Hundred Only*. Here is a sample Run.

Sample Run:

Enter Your PKR amount in figures:
5172

Amount in words is:

Five thousand One Hundred and Seventy Two Only

Task: 2

Write a program that takes a long string from the user (size should be greater than 30) and displays the number of characters and number of words in it. Here is a sample run.

Sample Run:

Input:

The quick brown fox jumps over the lazy dog.

Output:

No. of characters: 44

No. of Words: 9

Task: 3

Write a program that takes a 3 × 3 matrix from the user and finds its inverse. In case of singular matrix, the program should display a proper message.

Task: 4

Write a program which enters names of five countries and print them in alphabetical order.

Hint: Use strcpy and strcmp functions for strings comparison and swapping.