

Programming Assignment 2

1. Printing Strings:

- Write a program that prints a string variable containing your favorite quote.

2. Accessing Characters in Strings:

- Create a program that prompts the user for their name and then prints the first and last characters of the name.

3. Cleaning Strings:

- Design a program that takes a user-input string and removes any leading or trailing whitespaces.

4. Encoding and Escaping:

- Write a program that encodes a given string using Base64 encoding.

5. Comparing Strings:

- Develop a program that compares two strings and prints whether they are equal or not.

6. Manipulating and Searching Strings:

- Implement a program that takes a sentence as input and replaces all occurrences of a specified word with another word.

7. Regular Expressions:

- Create a program that uses regular expressions to validate if a given string is a valid email address.

8. Indexed vs. Associative Arrays:

- Explain the difference between indexed and associative arrays in a programming language of your choice.

9. Defining Arrays:

- Write a program that defines an array of integers and prints each element on a new line.

10. Storing Data in Array:

- Develop a program that asks the user to input five names and stores them in an array.

11. Multidimensional Array:

- Create a program that uses a 2D array to represent a multiplication table up to 10x10.

12. Extracting Multiple Values:

- Write a program that extracts even numbers from an array of integers and stores them in a new array.

13. Conversion between Array and Variables:

- Design a program that converts a string of comma-separated numbers into an array of integers.

14. Traversing Arrays:

- Implement a program that calculates the sum of all elements in an array.