**Arrays:**

In shell scripting, you can use arrays to store multiple values in a single variable. The syntax for declaring and using arrays can vary slightly depending on the shell you’re using (e.g., Bash, Zsh). Here’s how to do it in Bash, which is one of the most commonly used shells.

### **Declaring an Array:**

You can declare an array using parentheses ():

# Declare an array

my\_array=(value1 value2 value3)

### **Accessing Array Elements**

You can access elements of the array using the index (starting from 0):

# Accessing elements

echo ${my\_array[0]} # Output: value1

echo ${my\_array[1]} # Output: value2

1. **Adding Elements to an Array**

You can add elements to an existing array:

# Adding an element

my\_array+=("value4") # Now my\_array has 4 elements

### **Getting the Length of an Array**

You can get the length (number of elements) of an array using the # operator:

# Getting the length of the array

echo ${#my\_array[@]} # Output: 4

1. **Looping Through an Array**

You can loop through the elements of an array using a for loop:

# Looping through the array

for value in "${my\_array[@]}"; do

echo $value

Done

**Example:**

