Bash Array

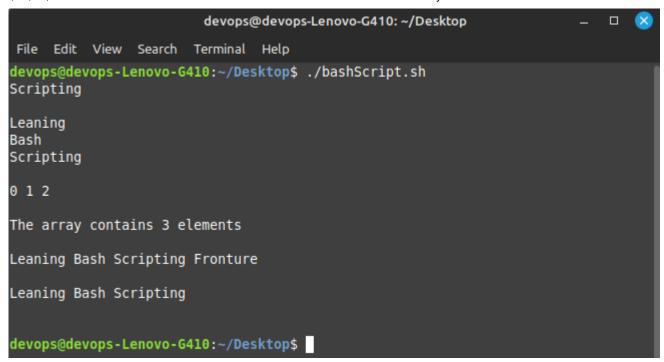
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A bash array is a data structure designed to store information in an indexed way.Bash arrays can store different types of elements like string and number in the same array. Bash doesn't support multidimensional array. So its not possible to add a array within array

There are two types of bash arrays:

- Indexed the array is referred via integers or numbers. (declare -a ARRAY_NAME)- **lowercase -a for indexed array ARRAY_NAME[index_1]=value_1 ARRAY_NAME[index_2]=value_2 ARRAY_NAME[index_n]=value_n
- Associative the array is referred via strings or a set of characters and words (declare -A ARRAY_NAME) **Uppercase -A for associative array declare -A ARRAY_NAME ARRAY_NAME[index_foo]=value_foo ARRAY_NAME[index_bar]=value_bar ARRAY_NAME[index_xyz]=value_xyz

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 bashScript.sh ×
#!/usr/bin/bash
#declaring array
declare -a sample array=("Leaning" "Bash" "Scripting")
#printing the element with a index number
echo ${sample array[2]}
echo
#applying loop
for i in "${sample array[@]}"
echo "$i"
done
echo
#Printing the Keys of an Array
echo "${!sample array[@]}"
echo
#Finding Array Length
echo "The array contains ${#sample array[@]} elements"
#Adding Elements to an Array
sample array[3]="Fronture"
echo "${sample array[@]}"
echo
#Deleting an Element from an Array
unset sample array[3]
echo "${sample array[@]}"
echo
#Deleting Entire Array
unset sample array
echo ${!sample array[@]}
```



Ref: javatpoint.com