

ARRAY

```
#!/bin/bash
```

```
# To declare a static Array
```

```
arr=("Biswajeet" "Aman" "1" "Abhishek" "Deb" "2")
```

```
# To print all elements of the array
```

```
echo "All elements of the array:"
```

```
echo "${arr[@]}"
```

```
echo "${arr[*]}"
```

```
# To print the first element
```

```
echo "The first element:"
```

```
echo "${arr[0]}"
```

```
# To print a selected index element
```

```
selected_index=3
```

```
echo "Selected index element at index $selected_index:"
```

```
echo "${arr[$selected_index]}"
```

```
# To print elements from a particular index
```

```
echo "Elements from a particular index:"
```

```
echo "${arr[@]:2}" # Prints elements starting from index 2
```

```
echo "${arr[*]:2}" # Prints elements starting from index 2
```

```
# To print elements in a range
```

```
echo "Elements in a range:"
```

```
echo "${arr[@]:1:3}" # Prints elements from index 1 to 3
```

```
echo "${arr[*]:1:3}" # Prints elements from index 1 to 3
```

```
#!/bin/bash
```

```
# Declare a static Array
```

```
arr=("Jayesh" "Shivang" "1" "rishabh" "Vipul" "Nishtan")
```

```
# Count the length of a particular element in the array
```

```
element_length=${#arr[2]}
```

```
echo "Length of element at index 2: $element_length"
```

```
# Count the length of the entire array
```

```
array_length=${#arr[@]}
```

```
echo "Length of the array: $array_length"
```

```
# Search in the array
```

```
search_result=$(echo "${arr[@]}" | grep -c "Jayesh")
```

```
echo "Search result for 'Jayesh': $search_result"
```

```
# Search and replace in the array
```

```
replaced_element=$(echo "${arr[@]}/Shivang/SHIVANG")
```

```
echo "Array after search & replace: ${replaced_element[*]}"
```

```
# Delete an element in the array (index 3)
```

```
unset arr[3]
```

```
echo "Array after deletion: ${arr[*]}"
```