

# Examples

- With numeric array elements

## Code

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

```
# To declare static Array
```

```
arr=(1 2 3 4 5 6 7)
```

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

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

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

```
echo ${arr[@]:0}
```

```
echo ${arr[*]:0}
```

```
# To print first element
```

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

```
echo ${arr}
```

```
# To print particular element
```

```
echo ${arr[3]}
```

```
echo ${arr[1]}
```

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

```
echo ${arr[@]:0}
```

```
echo ${arr[@]:1}
```

```
echo ${arr[@]:2}
```

```
echo ${arr[0]:1}
```

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

```
echo ${arr[@]:1:4}
```

```
echo ${arr[@]:2:3}
```

```
echo ${arr[0]:1:3}
```

```
# Length of Particular element
```

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

```
echo ${#arr}
```

```
# Size of an Array
```

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

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

## Output

```
1 2 3 4 5 6 7
```

```
1 2 3 4 5 6 7
```

```
1 2 3 4 5 6 7
```

```
1 2 3 4 5 6 7
```

```
1
```

```
1
```

```
4
```

```
2
```

```
1 2 3 4 5 6 7
```

```
2 3 4 5 6 7
```

```
3 4 5 6 7
```

```
2 3 4 5
```

```
3 4 5
```

```
1
```

```
1
```

```
7
```

```
7
```

- With string array elements

#### Code

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

```
# To declare static Array
```

```
arr=(prakhar ankit 1 rishabh manish abhinav)
```

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

```
echo ${arr[@]} # prakhar ankit 1 rishabh manish abhinav
```

```
echo ${arr[*]} # prakhar ankit 1 rishabh manish abhinav
```

```
echo ${arr[@]:0} # prakhar ankit 1 rishabh manish abhinav
```

```
echo ${arr[*]:0} # prakhar ankit 1 rishabh manish abhinav
```

```
# To print first element
```

```
echo ${arr[0]} # prakhar
```

```
echo ${arr} # prakhar
```

```
# To print particular element
```

```
echo ${arr[3]} # rishabh
```

```
echo ${arr[1]} # ankit
```

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

```
echo ${arr[@]:0} # prakhar ankit 1 rishabh manish abhinav
```

```
echo ${arr[@]:1} # ankit 1 rishabh manish abhinav
```

```
echo ${arr[@]:2} # 1 rishabh manish abhinav
```

```
echo ${arr[0]:1} # rakhar
```

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

```
echo ${arr[@]:1:4} # ankit 1 rishabh manish
```

```
echo ${arr[@]:2:3} # 1 rishabh manish
```

```
echo ${arr[0]:1:3} # rak
```

```
# Length of Particular element
```

```
echo ${#arr[0]} # 7
```

```
echo ${#arr} # 7
```

```
# Size of an Array
```

```
echo ${#arr[@]} # 6
```

```
echo ${#arr[*]} # 6
```

### Output

```
prakhar ankit 1 rishabh manish abhinav
prakhar ankit 1 rishabh manish abhinav
prakhar ankit 1 rishabh manish abhinav
prakhar ankit 1 rishabh manish abhinav
prakhar
prakhar
rishabh
ankit
prakhar ankit 1 rishabh manish abhinav
ankit 1 rishabh manish abhinav
1 rishabh manish abhinav
rakhar
ankit 1 rishabh manish
1 rishabh manish
rak
7
7
6
6
```