

Arrays and functions

- 1) Write a program,
  - a. Where a function adds all the elements in an array.
  - b. The function should display the sum of elements.
  - c. Make 2 function calls with array elements- (1, 2, 3) and (4, 5, 6).

**#commands in terminal**

```
Gedit arrays.sh
Chmod +x arrays.sh
./arrays.sh
```

**#commands in shell script**

```
#!/usr/bin/env bash

function array_sum()
{
sum=0
i=0
while [ $1 -le $3 ]
do
    sum=$(( $sum + a[i] ))
    i=$(( i+1 ))
done
echo "$sum"
}
a=(1 2 3 )
array_sum ${a[@]}
a=( 4 5 6 )
array_sum ${a[@]}
```

Machine View

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arrays.sh Save

```
1#!/usr/bin/env bash
2function array_sum()
3{
4    sum=0
5    i=0
6    while [ $i -le $3 ]
7    do
8        sum=$((sum + a[i]))
9        i=$((i + 1))
10    done
11    echo "$sum"
12}
13a=( 1 2 3 )
14array_sum ${a[@]}
15a=( 4 5 6 )
16array_sum ${a[@]}
17
18
19
```

Machine View

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onworks@onworks-Standard-PC-i440FX-PIIX-1996: ~

```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ gedit arrays.sh
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ chmod +x arrays.sh
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ ./arrays.sh
6
15
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ gedit arrays.sh
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ ./arrays.sh
The sum of all elements in an array is 6
The sum of all elements in an array is 15
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$
```