

EmbedUR - Linux Training Program

Module - 4

Assignment – 31 (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).

Output:

```
aswinsankesh@aswin-linux:~$ gedit array_func.sh &
[2] 3009
aswinsankesh@aswin-linux:~$ chmod +x array_func.sh
[2]+  Done                  gedit array_func.sh
aswinsankesh@aswin-linux:~$ ./array_func.sh
Sum of 1 + 2 + 3 is: 6
Sum of 4 + 5 + 6 is: 15
aswinsankesh@aswin-linux:~$
```

File:

```
1 #!/bin/bash
2
3 arr_add()
4 {
5     arr=($@)
6     sum=$(( ${arr[0]} + ${arr[1]} + ${arr[2]} ))
7     echo "Sum of ${arr[0]} + ${arr[1]} + ${arr[2]} is: $sum"
8 }
9
10 declare -a arr1=('1' '2' '3')
11 arr_add ${arr1[@]}
12
13 declare -a arr2=('4' '5' '6')
14 arr_add ${arr2[@]}
15
```

Explanation:

declare -a => To declare an array and initialize its values

arr=(\$@) => used to transfer all array elements from arguments into the function