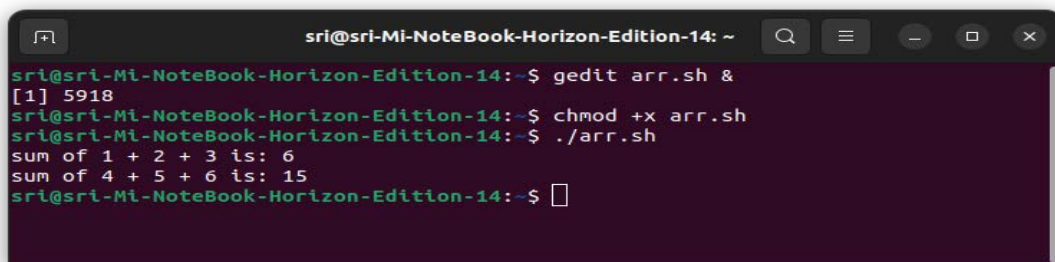# EmbedUR - Linux Training Program

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:

```
sri@sri-Mi-NoteBook-Horizon-Edition-14: ~

sri@sri-Mi-NoteBook-Horizon-Edition-14:~$ gedit arr.sh &
[1] 5918
sri@sri-Mi-NoteBook-Horizon-Edition-14:~$ chmod +x arr.sh
sri@sri-Mi-NoteBook-Horizon-Edition-14:~$ ./arr.sh
sum of 1 + 2 + 3 is: 6
sum of 4 + 5 + 6 is: 15
sri@sri-Mi-NoteBook-Horizon-Edition-14:~$
```

File:

```bash
#!/bin/bash

arr_add()
{
  arr=($@)
  sum=$((${arr[0]} + ${arr[1]} + ${arr[2]}))
  echo "sum of ${arr[0]} + ${arr[1]} + ${arr[2]} is: $sum"
}
declare -a arr1=('1' '2' '3')
arr_add ${arr1[@]}

declare -a arr2=('4' '5' '6')
arr_add ${arr2[@]}
```