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# Experiment – 20

**AIM : Write a shell to demonstrate the working of array. Input 10 integer in array and display maximum, minimum, total sum and average of an array.**

**ShellScript :**

**echo -n "Enter elements of array : "**

**read -a arr**

**sum=0**

**len=${#arr[@]}**

**max=${arr[0]}**

**min=${arr[0]}**

**echo "length of the array is $len"**

**for i in ${arr[@]}**

**do**

**if [ $max -lt $i ]**

**then**

**max=$i**

**fi**

**if [ $min -gt $i ]**

**then**

**min=$i**

**fi**

**sum=`expr $sum + $i`**

**done**

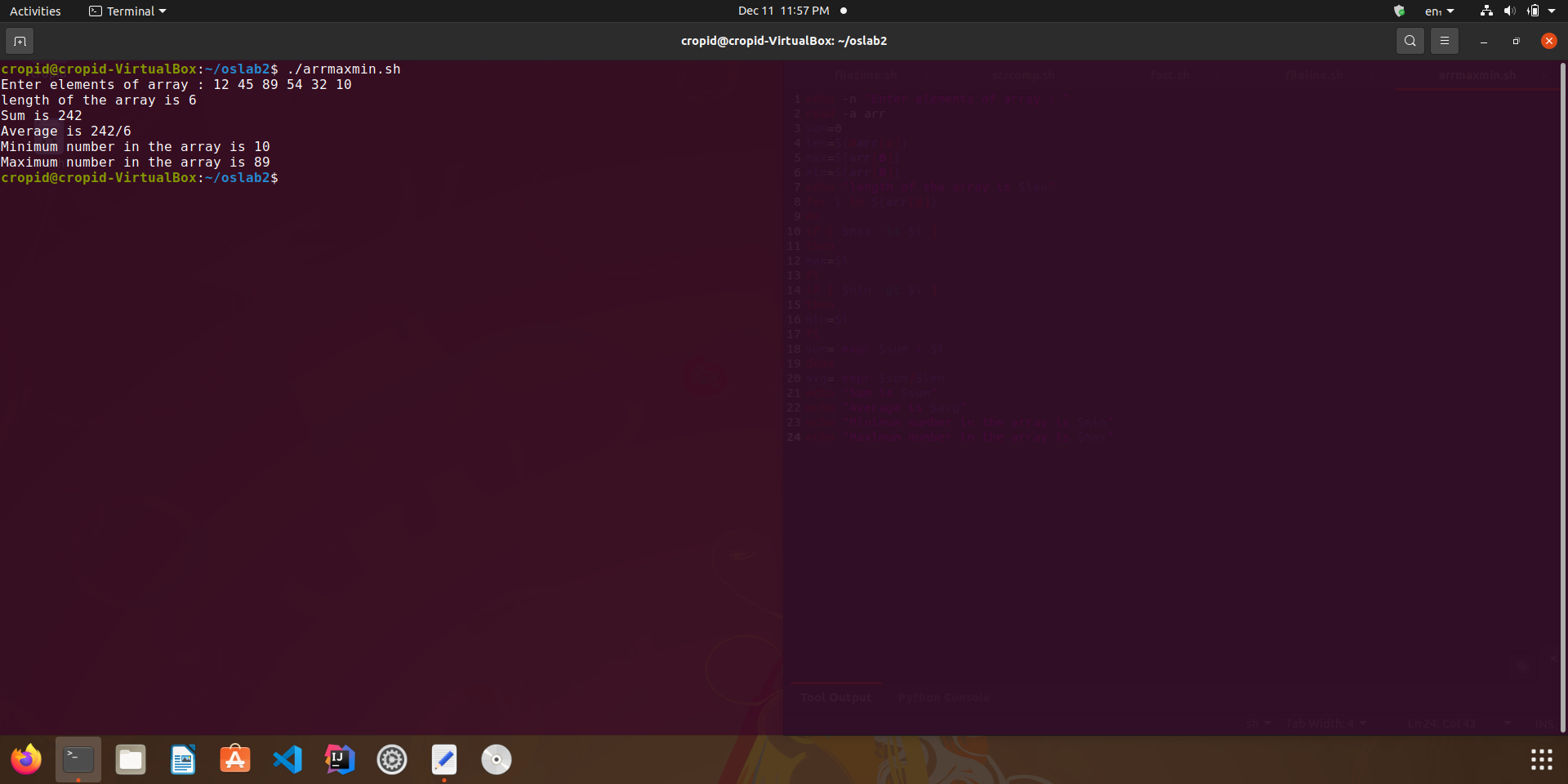
**avg=`expr $sum/$len`**

**echo "Sum is $sum"**

**echo "Average is $avg"**

**echo "Minimum number in the array is $min"**

**echo "Maximum number in the array is $max"**

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