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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"
```