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Subject → Operating System Lab

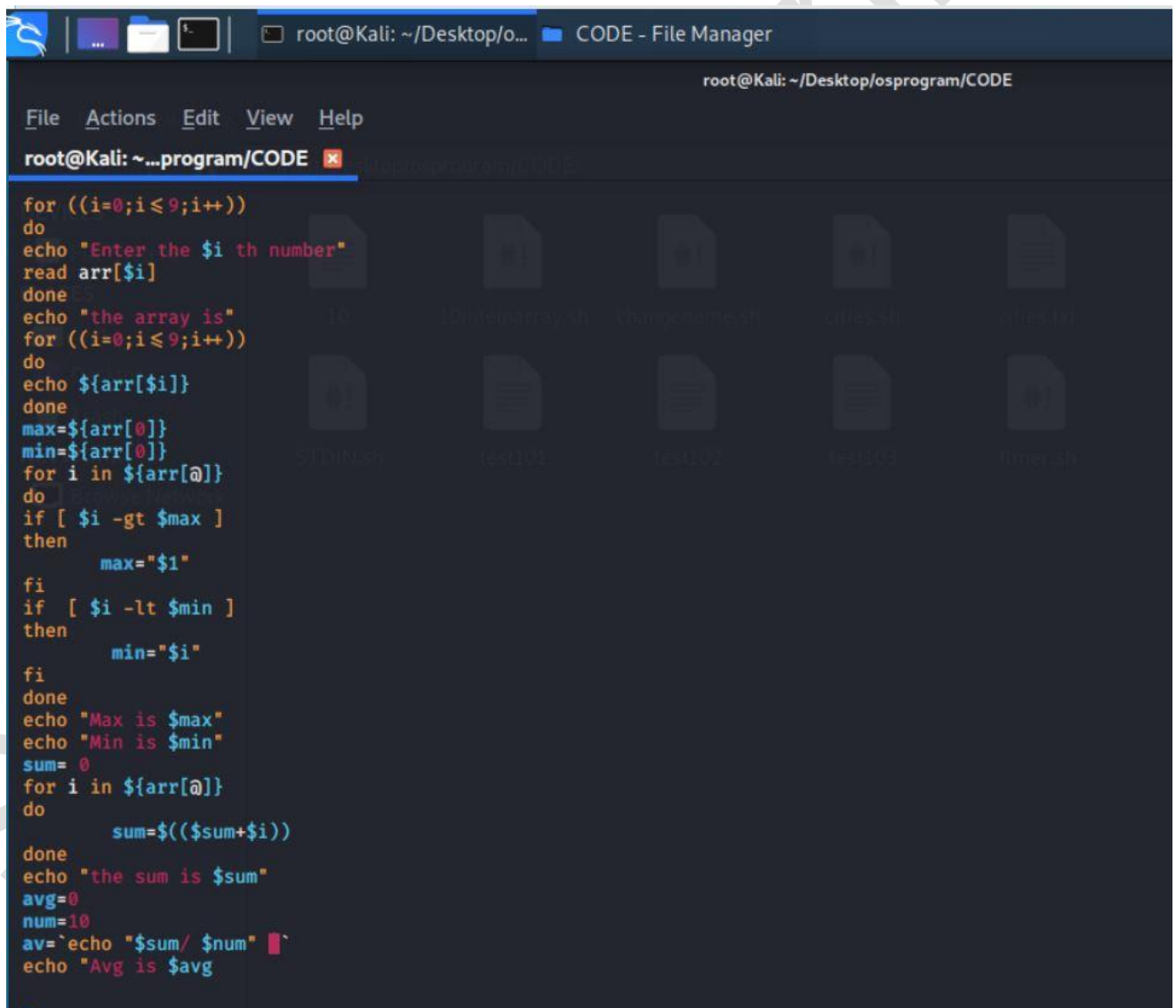
Subject Code → BCSC 0803

Subject Teacher → MRS. Nidhi

QUS 1 → 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

CODE →

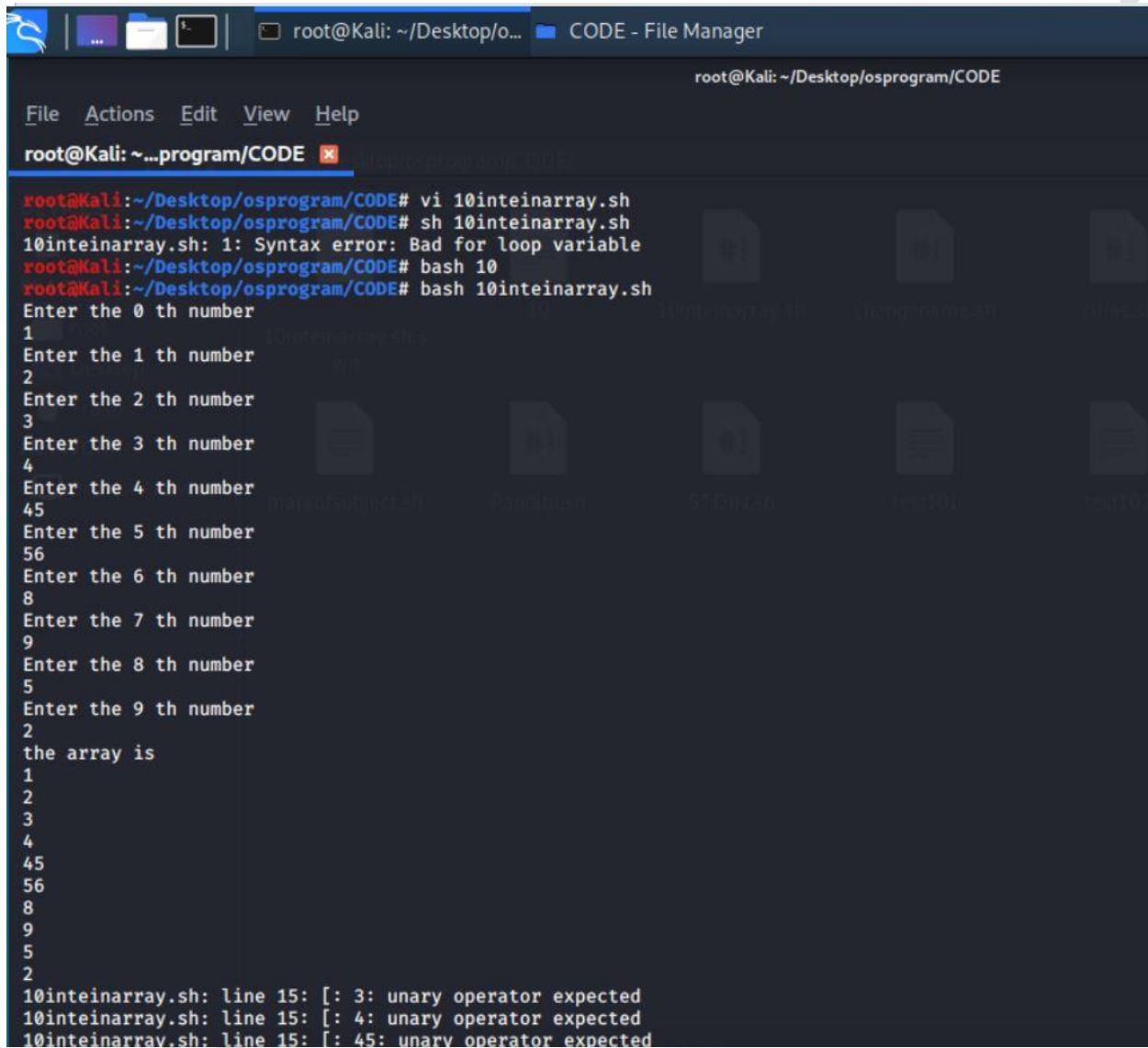
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```
for ((i=0;i<=9;i++))
do
echo "Enter the $i th number"
read arr[$i]
done
echo "the array is"
for ((i=0;i<=9;i++))
do
echo ${arr[$i]}
done
max=${arr[0]}
min=${arr[0]}
for i in ${arr[@]}
do
if [ $i -gt $max ]
then
max="$i"
fi
if [ $i -lt $min ]
then
min="$i"
fi
done
echo "Max is $max"
echo "Min is $min"
sum= 0
for i in ${arr[@]}
do
sum=$((sum+$i))
done
echo "the sum is $sum"
avg=0
num=10
av=`echo "$sum/ $num" `
echo "Avg is $avg"
```

OUTPUT➔

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```
root@Kali: ~/Desktop/osprogram/CODE
File Actions Edit View Help
root@Kali: ~/Desktop/osprogram/CODE
root@Kali:~/Desktop/osprogram/CODE# vi 10inteinarray.sh
root@Kali:~/Desktop/osprogram/CODE# sh 10inteinarray.sh
10inteinarray.sh: 1: Syntax error: Bad for loop variable
root@Kali:~/Desktop/osprogram/CODE# bash 10
root@Kali:~/Desktop/osprogram/CODE# bash 10inteinarray.sh
Enter the 0 th number
1
Enter the 1 th number
2
Enter the 2 th number
3
Enter the 3 th number
4
Enter the 4 th number
45
Enter the 5 th number
56
Enter the 6 th number
8
Enter the 7 th number
9
Enter the 8 th number
5
Enter the 9 th number
2
the array is
1
2
3
4
45
56
8
9
5
2
10inteinarray.sh: line 15: [: 3: unary operator expected
10inteinarray.sh: line 15: [: 4: unary operator expected
10inteinarray.sh: line 15: [: 45: unary operator expected
```