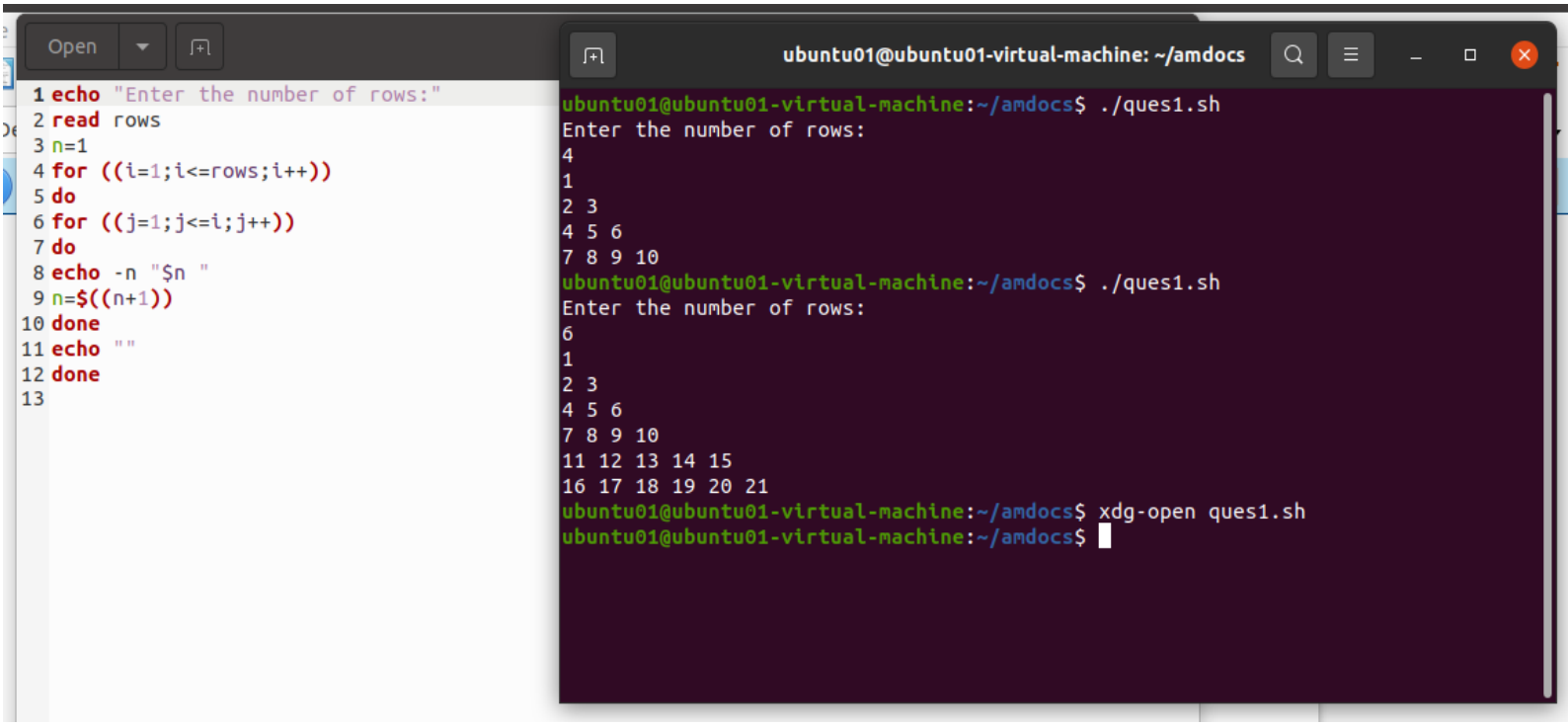
23/03/2023 SBA UNIX Day -3

Name: Rajat Ajmera

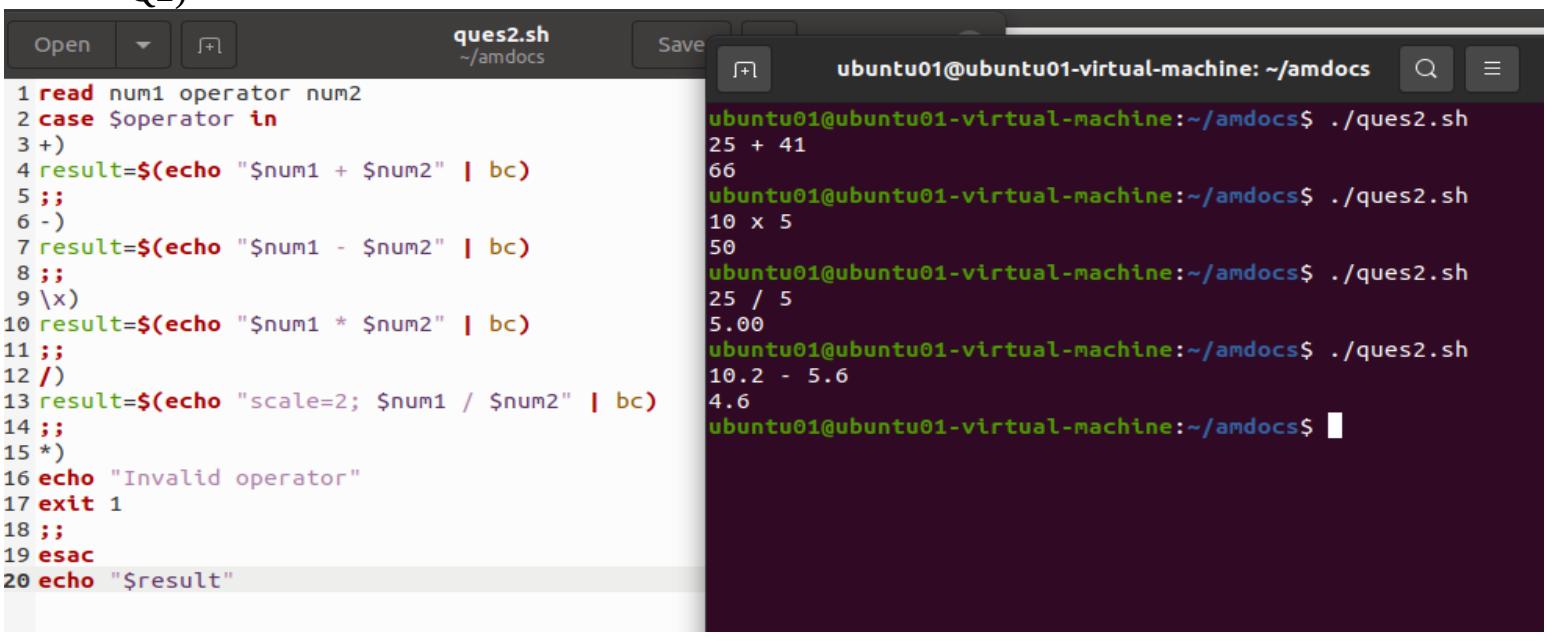
Q1)



```
echo "Enter the number of rows:"
read rows
n=1
for ((i=1;i<=rows;i++))
do
for ((j=1;j<=i;j++))
do
echo -n "$n "
n=$((n+1))
done
echo ""
done
```

```
ubuntu01@ubuntu01-virtual-machine:~/amdocs$ ./ques1.sh
Enter the number of rows:
4
1
2 3
4 5 6
7 8 9 10
ubuntu01@ubuntu01-virtual-machine:~/amdocs$ ./ques1.sh
Enter the number of rows:
6
1
2 3
4 5 6
7 8 9 10
11 12 13 14 15
16 17 18 19 20 21
ubuntu01@ubuntu01-virtual-machine:~/amdocs$ xdg-open ques1.sh
ubuntu01@ubuntu01-virtual-machine:~/amdocs$
```

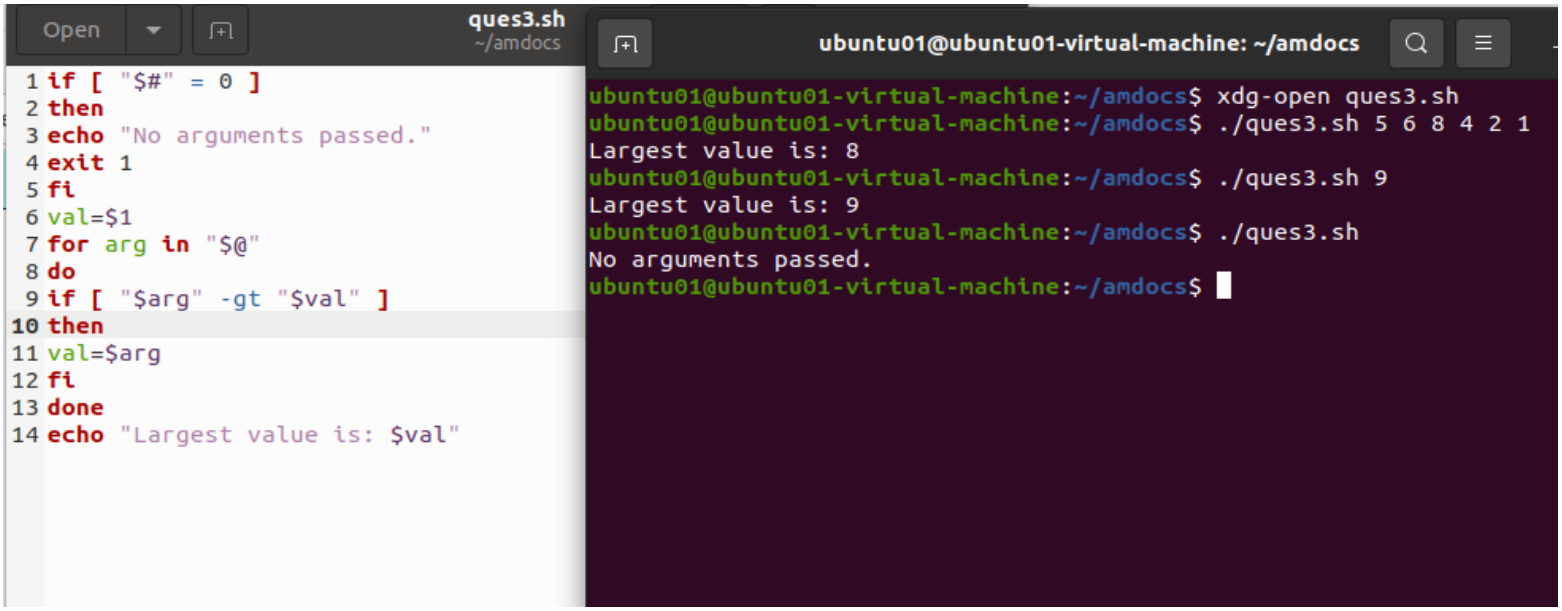
Q2)



```
read num1 operator num2
case $operator in
+)
result=$(echo "$num1 + $num2" | bc)
;;
-)
result=$(echo "$num1 - $num2" | bc)
;;
\x)
result=$(echo "$num1 * $num2" | bc)
;;
/)
result=$(echo "scale=2; $num1 / $num2" | bc)
;;
*)
echo "Invalid operator"
exit 1
;;
esac
echo "$result"
```

```
ubuntu01@ubuntu01-virtual-machine:~/amdocs$ ./ques2.sh
25 + 41
66
ubuntu01@ubuntu01-virtual-machine:~/amdocs$ ./ques2.sh
10 x 5
50
ubuntu01@ubuntu01-virtual-machine:~/amdocs$ ./ques2.sh
25 / 5
5.00
ubuntu01@ubuntu01-virtual-machine:~/amdocs$ ./ques2.sh
10.2 - 5.6
4.6
ubuntu01@ubuntu01-virtual-machine:~/amdocs$
```

Q3)


Open
ques3.sh
~/amdocs
1 if ["$#" = 0]
2 then
3 echo "No arguments passed."
4 exit 1
5 fi
6 val=$1
7 for arg in "$@"
8 do
9 if ["$arg" -gt "$val"]
10 then
11 val=$arg
12 fi
13 done
14 echo "Largest value is: $val"
ubuntu01@ubuntu01-virtual-machine: ~/amdocs
ubuntu01@ubuntu01-virtual-machine:~/amdocs$ xdg-open ques3.sh
ubuntu01@ubuntu01-virtual-machine:~/amdocs$ ./ques3.sh 5 6 8 4 2 1
Largest value is: 8
ubuntu01@ubuntu01-virtual-machine:~/amdocs$ ./ques3.sh 9
Largest value is: 9
ubuntu01@ubuntu01-virtual-machine:~/amdocs$ ./ques3.sh
No arguments passed.
ubuntu01@ubuntu01-virtual-machine:~/amdocs$