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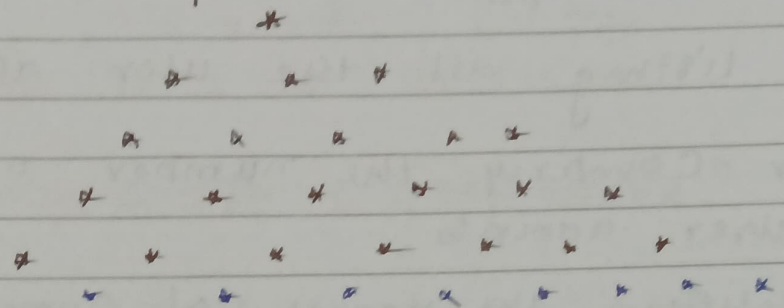
1) write a Shell Script to print the following pattern for any number of lines.



```
rows = 5
for (( i=1 ; i<=rows ; i++ ))
do
for(( j=1 ; j<=rows-i ; j++ ))
do
echo -n
done
for (( j=1 ; j<=2*i-1 ; j++)
do
  echo -n "*"
done
echo
done
```

2) write a Shell Script to test weather a given String is palindrome or not.

Ans
```
echo "Input the String without Space".
read Str.
For i in $(seq 0 ${#Str}) : do
  revStr = ${Str:$i:1} $revSh.
done
```

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```
echo "The given String is " $ str.
echo " Its reverse is" $ revstr.
if [" $ str" = " $ revstr "]; then.
        echo "It is a Palindrome"
else
        echo " It is not a palendrome".
```

3) write a Shell Script which Counts the no. of Consotents and vowels in a given Sentence.

→
```
echo -n " Enter a line of text :"
read String
numcount "$ (echo $ string) grep -o "[0-9]" | wc -l"
vowcount = $( echo $ String | grep -o -i "[aeiou]" | wc -l
Conscount = $( echo $ String | grep -o -i "[bcdfghjklmn
                                pqrstvwxyz]" | wc -l)
echo " The given String has $ vow cont vowels $
        Conscount.
        Consonent and $ num Count numbers on it."
```

4) write a shell Script to display the list of user as well as the number of users Connected to the System.

→ echo -e "\n.
[1] for listing all the user accounts name \n
[2] for Counting the number of logged in user \n
[3] for listing the names of currently logged in
[4] for checking the groups to which the
Current user belong \n"

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Now take user input
read $ useripput in
1> # Syntax islogin < option [= output field] >
islogin - O USER.
;;
2> # Syntax who <optain> < user optional >
grep used to filter.
who --- count | grep users.
;;
3> # -q option is to count the number of user and print the logged -in users.

instead of -q, --count can also be used.
-v is used to exclude any pattern.
who -q | grep -v users.
;;
4> # Syntax groups < option > [USERNAME]
groups.
;;
5)
echo -e " Please ~~fnter~~ Correct input \n ".
;;
esac

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4) output

/userAccount -sh.

[1] for listing all the user accounts name.

[2] for counting the number of loggedf - in user accounts.

[3] for listing the names of currently logged-in user.

[4] for checking the groups to which the current user belong.

2

#user =1

3) output

Enter a line of text.

I love my country.

No of vowels = 5.

No of Consonents = 9.