

**11. Write a shell script to reverse a string and check whether a given string is palindrome or not**

```
echo "enter string"
read str
rvs=$(echo $str | rev)
echo "Original string: $str"
echo "Reversed string: $rvs"
if [ "$str" = "$rvs" ]; then
echo "The string is a palindrome"
else
echo "The string is not a palindrome"
fi
```

Output:

```
enter string
malayalam
Original string: malayalam
Reversed string: malayalam
The string is a palindrome
```

**20. Write shell script to display current date and time, number of users, terminal name, login date and time.**

```
echo "Current date and time: $(date)"
echo "Number of users: $(who | wc -l)"
echo "Terminal name: $TERM"
echo "Login date and time: $(last -1 -i | awk 'NR==2
{print $NF, $5, $6}')
```

Output:

```
current date and time: Monday 20 February 2023 11:45:31
AM IST
Number of users: 2
Terminal name: xterm-256color
Login date and time: in Feb 20
2022 15 09:39:04
```

**23. Write a shell script to find number of vowels, consonants, numbers in a given string**

```
echo "enter the word"
read word
string=$word;
vowels=0
consonants=0
numbers=0
for ((i=0; i<${#string}; i++)); do
char=${string:i:1}
case "$char" in
[aeiouAEIOU])
((vowels++))
```

```
;;  
[bcdfghjklmnpqrstvwxyzBCDFGHJKLMNPQRSTVWXYZ])  
((consonants++))  
;;  
[0-9])  
((numbers++))  
;;  
esac  
done  
echo "Vowels: $vowels"  
echo "Consonants: $consonants"  
echo "Numbers: $numbers"
```

Output:  
enter the word  
hello123  
Vowels: 2  
Consonants: 3  
Numbers: 3