Q. Write a shell script that displays a list of all the files in the current directory.

```
echo "Enter the directory name"

read dir

if [ -d $dir ]

then

cd $dir

ls > f

exec < f

while read line

do

if [ -f $line ]

then

if [ -r $line -a -w $line -a -x $line ]

then

echo "$Line has all permissions:"

else

echo "Files not having all permissions:"

fi

fi

done

fi
```

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Q. Write a shell script to echo the string length of the given string as argument.

```
string="$1"

if [ $# -eq 0 ]
then
echo "Syntax: $(basename $0) string"
exit 1
fi

length=$(echo ${#string})

echo "String length = $length
```

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Q. Write a shell script to find the factorial of given integer.

```
echo "Enter a number"
read num

fact=1

while [ $num -gt 1 ]
```

```
do

  fact=$((fact * num))  #fact = fact * num

  num=$((num - 1))     #num = num - 1

done


echo $fact
```

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Q. Write a shell script that lists all files in a directory.

```
for entry in `ls $search_dir`; do

    echo $entry

done
```

_____

Q. Write a shell script if a directory exists or not.

To check if a directory exists in a shell script:

```
if [ -d "$DIRECTORY" ]; then


fi
```

To check if a directory doesn't exist:

```
if [ ! -d "$DIRECTORY" ];
```

```
then


fi
```

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Q. Write a shell script to depict case statement

```
echo -n "Enter the name of a country: "
read COUNTRY

echo -n "The official language of $COUNTRY is "

case $COUNTRY in

  Lithuania)
    echo -n "Lithuanian"
    ;;

  Romania | Moldova)
    echo -n "Romanian"
    ;;

  Italy | "San Marino" | Switzerland | "Vatican City")
    echo -n "Italian"
```

```
    ;;


  *)
    echo -n "unknown"

    ;;
esac
```

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