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Q.1]

```
#!/usr/bin/bash
```

```
echo "CSE2008 Lab Practical"
```

```
C=1
```

```
while (($C < 5))&&(($C > 0))
```

```
do
```

```
echo "1) CREATE FOLDER"
```

```
echo "2) OPEN FOLDER"
```

```
echo "3) CLOSE FOLDER"
```

```
echo "4) DISPLAY SUBFOLDERS"
```

```
echo " MAKE CHOICE: "
```

```
read C
```

```
case $C in
```

```
"1")
```

```
    echo "ENTER THE NAME OF NEW FOLDER"
```

```
    read FN
```

```
    mkdir $FN
```

```
    echo "*** FOLDER CREATED ***";;
```

```
"2")
```

```
    echo "ENTER THE FOLDER NAME TO OPEN"
```

```
    read FN
```

```
    cd $FN;;
```

```
"3")
```

```
    cd -
```

```
    echo "*** FOLDER CLOSED ***";;
```

```

"4")
echo "ENTER FOLDER NAME TO SEE SUBFOLDERS"
read FN
ls -R $FN;;
esac
done

```

Output :-

```

CSE2008 Lab Practical
1) CREATE FOLDER
2) OPEN FOLDER
3) CLOSE FOLDER
4) DISPLAY SUBFOLDERS
MAKE CHOICE:
1
ENTER THE NAME OF NEW FOLDER
VITAP
*** FOLDER CREATED ***
1) CREATE FOLDER
2) OPEN FOLDER
3) CLOSE FOLDER
4) DISPLAY SUBFOLDERS
MAKE CHOICE:
2
ENTER THE FOLDER NAME TO OPEN
VITAP
1) CREATE FOLDER
2) OPEN FOLDER
3) CLOSE FOLDER
4) DISPLAY SUBFOLDERS
MAKE CHOICE:
1
ENTER THE NAME OF NEW FOLDER
SCOPE
*** FOLDER CREATED ***
1) CREATE FOLDER
2) OPEN FOLDER
3) CLOSE FOLDER
4) DISPLAY SUBFOLDERS
MAKE CHOICE:
1
ENTER THE NAME OF NEW FOLDER
SENSE
*** FOLDER CREATED ***
1) CREATE FOLDER
2) OPEN FOLDER
3) CLOSE FOLDER
4) DISPLAY SUBFOLDERS
MAKE CHOICE:

```

```

1
ENTER THE NAME OF NEW FOLDER
SMEC
*** FOLDER CREATED ***
1) CREATE FOLDER
2) OPEN FOLDER
3) CLOSE FOLDER
4) DISPLAY SUBFOLDERS
MAKE CHOICE:
1
ENTER THE NAME OF NEW FOLDER
VISH
*** FOLDER CREATED ***
1) CREATE FOLDER
2) OPEN FOLDER
3) CLOSE FOLDER
4) DISPLAY SUBFOLDERS

```

Q2)

```

#!/usr/bin/bash
echo "CSE2008 Lab Practical"
echo "ENTER THE NUMBER OF WORDS (MAX. 20)"
read Num
for ((i=1;i<=Num;i++))
do
echo "ENTER WORD $i"
read WORDS[$i]
done
echo "DISPLAYING LENGTH OF EACH WORD "
for ((i=1;i<=Num;i++))
do
echo "$WORDS[$i] = ${#WORDS[$i]}"
done

```

```

CSE2008 Lab Practical
ENTER THE NUMBER OF WORDS (MAX. 20)
4
ENTER WORD 1
Toyota
ENTER WORD 2
Suzuki
ENTER WORD 3
Hyundai
ENTER WORD 4
Honda
DISPLAYING LENGTH OF EACH WORD
[1] = 6
[2] = 6
[3] = 7
[4] = 5

```

Q3)

```
#!/usr/bin/bash
echo "CSE2008 Lab Practical"
echo "ENTER PATH TO SEARCH"
read FP
if [ -e $FP ] || [ -d $FP ] || [ -f $FP ];
then
    echo "VALID PATH "
else
    echo "INVALID PATH !!"
fi
if [ -x "$FP" ];
then
    echo "EXECUTABLE"
else
    echo "CANNOT EXECUTE"
fi
if [ -c "$FP" ];
then
    echo "CHARACTER SPECIAL FILE"
elif [ -b "$FP" ];
then echo "BLOCK SPECIAL FILE"
else
    echo "REGULAR FILE"
fi
```

Output :-

```
CSE2008 Lab Practical
ENTER PATH TO SEARCH
/Desktop/Screenshot.JPG
INVALID PATH !!
CANNOT EXECUTE
REGULAR FILE
```

Q.4)

```
echo "CSE2008 Lab Practical"
C=1
while (($C < 6))&&(($C > 0))
do
echo "(1) OPEN FOLDER"
echo "(2) CLOSE FOLDER"
echo "(3) CREATE FILE"
echo "(4) WRITE IN FILE"
echo "(5) DISPLAY FILE CONTENTS"
echo " MAKE CHOICE: "
read C
case $C in
"1")
echo "ENTER FOLDER NAME TO OPEN: "
read FN
cd $FN
echo "--- FOLDER OPENED ---";;
"2")
echo "CURRENT FOLDER CLOSED"
cd -;;
"3")
echo "ENTER FILE NAME TO CREATE"
read FN
touch $FN
chmod 744 $FN
echo "FILE $FN CREATED!!";;
"4")
echo "ENTER FILE NAME TO WRITE"
read FN
```

```

echo "WRITE CONTENTS TO FILE"
read FC
echo $FC>>$FN
echo "DONE";;
"5")
echo "ENTER FILE NAME TO OPEN"
read FN
head $FN
echo "ADD CONTENTS TO FILE (Y/N)"
read ACF
case $ACF in
"Y")
echo " WRITE CONTENTS TO FILE "
read CF
echo $CF>>$FN;;
"N")
exit 1;;
esac
echo "**** DONE APPENDING ****";;
esac
done

```

```

CSE2008 Lab Practical
(1) OPEN FOLDER
(2) CLOSE FOLDER
(3) CREATE FILE
(4) WRITE IN FILE
DISPLAY FILE CONTENTS
MAKE CHOICE
1
ENTER FOLDER NAME TO OPEN
(1) OPEN FOLDER
(2) CLOSE FOLDER
(3) CREATE FILE
(4) WRITE IN FILE
DISPLAY FILE CONTENTS
MAKE CHOICE
1
ENTER FOLDER NAME TO OPEN
SMEC
---- FOLDER OPENED ----

```

Q5)

```
echo "CHECK WHETHER FILE EXISTS OR NOT"
```

```
fun1 (){
```

```
read -p 'ENTER THE NAME OF FILE:' w
```

```
if [[ -e $w ]]
```

```
then
```

```
echo "FILE EXISTS"
```

```
else
```

```
echo "FILE DOES NOT EXIST"
```

```
fi
```

```
}
```

```
echo
```

```
fun2 (){
```

```
echo
```

```
echo "CHECK WHETHER FILE HAS EXECUTABLE PERMISSIONS OR NOT"
```

```
echo
```

```
read -p 'ENTER THE NAME OF FILE:' w
```

```
if [[ -x $w ]]
```

```
then
```

```
echo "FILE HAS EXECUTABLE PERMISSIONS"
```

```
else
```

```
echo "FILE DOES NOT HAVE EXECUTABLE PERMISSIONS"
```

```
fi
```

```
}
```

```
fun1
```

```
fun2
```

```
CHECK WHETHER FILE EXISTS OR NOT
```

```
ENTER THE NAME OF FILE:
```

```
Documents
```

```
THE FILE EXISTS
```

```
CHECK WHETHER FILE HAS EXECUTABLE PERMISSIONS OR NOT
```

```
ENTER THE NAME OF FILE
```

```
Documents
```

```
THE FILE HAS EXECUTABLE PERMISSIONS
```