**PRACTICAL NO- 8 Shell Scripting – III**

**1] Write a shell script to accept c or C++ file from the user, compile it, execute this file and display the output.**

**Code:**

vi 47.c

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#include<stdio.h>

main()

{

printf("Hello World !!\n");

}

vi 471.c

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echo "Enter c program file"

read f1

if [ -f$f1 ]

then

echo "$f1 exist"

echo "Compiling and executing $f1 file"

cc -o a1.out $f1

echo "The output of $f1 file is "

./a1.out

else

echo "$f1 file does not exist."

fi

**Output:**

[tybscit@localhost Desktop]$ sh 471.c

Enter c program file

47.c

47.c exist

Compiling and executing 47.c file

The output of 47.c file is

Hello World !!

**2] Create a file named test2 with fields rollNo, stud Name and marks. Fields are separated by colon. Write a shell script to perform the following options on that file**

1. **Display content of file**
2. **Copy the given file**
3. **Delete the given file**
4. **Exit**

**Code:** vi test2

while [ true ]

do

echo "1.Display the contents of the file:"

echo "2.Copy the file "

echo "3.Delete the file "

echo "4.Exit"

echo "Enter your choice:"

read ch

case $ch in

1)echo "Display the content of the file"

cat test1;;

2)while [ true ]

do

echo "Enter the file name for copying "

read f1

if [ -f$f1 ]

then

echo "$f1 file already exist can't copy"

else

echo "$f1 doesn't exist. You can copy the contents"

cp stud $f1

echo "Target file"

cat $f1

break

fi

done;;

3)echo "Now we are deleting the file "

rm $f1

echo "File deleted"

;;

4)echo “Exit”

exit();;

echo "Wrong choice";;

\*)break;;

esac

done

**Output:**

[tybscit@localhost ~]$ sh test2

1.Display the contents of the file:

2.Copy the file

3.Delete the file

4.Exit

Enter your choice: 1

Display the content of the file

while [ true ]

do

echo " 1.All the users on the system"

echo "2.Present working directory"

echo "3.Calender of April 2008"

echo "4.Todays date and time"

echo "5.All the processes of user "

echo "6.Display your terminal Address"

echo "7.Display login name of the user currently logged in the system "

echo "8.Exit"

echo "Enter your choice:"

read ch

case $ch in

1)echo "All users currently logged in are "

who;;

2)echo "Present working directory"

pwd;;

3)echo "calendar of April 2008"

cal 04 2008;;

4)echo "Todays date and time"

date +"DATE:%D%nTIME:%T";;

5)echo "All processes of user"

ps;;

\*)break;;

esac

done

**3] Write a shell script to perform following operation on the file entered by the user.**

1. **Display content of file**
2. **Copy the given file**
3. **Rename the given file**
4. **Delete the given file**
5. **Exit**
6. **If above 4 are not there then print error message**

**Code:** vi test3

while [ true ]

do

echo "1.Display contents of file"

echo "2.Copy the given file"

echo "3.Rename the given file"

echo "4.Delete the file "

echo "5.Exit"

echo "Enter the file name"

read test2

if [ -f$test2 ]

then

echo "Enter your choice"

read ch

case $ch in

1)echo "Contents of file $test2 are:"

cat $test2;;

2)echo "Enter the target file"

read $f2

if [ -f$f2 ]

then

echo "$f2 already exists,can,t copy"

else

echo "$f2 doesn't exist"

cp $test2 $f2

echo "Target file"

cat $f2

fi

;;

3)echo "Enter new name for file"

read nm

mv $test2 $nm;;

1. echo "Deleting the file" rm $f2;;

5)echo "Exit"

exit 0;;

\*)break;;

esac

else

echo "File doesn’t exists"

fi

done

**Output:**

[tybscit@localhost ~]$ sh test3

1.Display contents of file

2.Copy the given file

3.Rename the given file

4.Delete the file

5.Exit

Enter the file name : test2

Enter your choice 1

Contents of file test2 are:

while [ true ]

do

echo "1.Display the contents of the file:"

echo "2.Copy the file "

echo "3.Delete the file "

echo "4.Exit"

echo "Enter your choice:"

read ch

case $ch in

1)echo "Display the content of the file"

cat test1;;

2)while [ true ]

do

echo "Enter the file name for copying "

read f1

if [ -f$f1 ]

then

echo "$f1 file already exist can't copy"

else

echo "$f1 doesn't exist.You can copy the contents"

cp stud $f1

echo "Target file"

cat $f1

break

fi

done;;

3)echo "Now we are deleting the file "

rm $f1

echo "File deleted"

;;

4)echo "Wrong choice";;

\*)break;;

esac

done

**4] Write a shell script to add unique record in above file student.**

**Code:** vi test4

while [ true ]

do

echo "enter student rollno"

read sno

x=`grep -c "$sno" student`

if [ $x -gt 0 ]

then

echo "$sno rollNo already exists"

else

echo "$sno doesn’t exists"

echo "enter student name:"

read nm

echo "Enter students marks"

read mrk

echo "$sno:$nm:$mrk">>student

echo "Record Added"

echo "Now the contents of student file are:"

cat student

break

fi

done

**Output:**

[tybscit@localhost ~]$ sh test4

enter student rollno

8325

8325 doesn’t exists

enter student name:

reshma

Enter students marks

80

Record Added

Now the contents of student file are:

8325:reshma:80

**5] Create 2 files as follows Master Data(ProdNo, ProdNm, RateOfSale, Description) and Transdata(custData, ProdNo, CustNm, Units sold).Fields are separated by colon. Write a shell script to perform the following operations on these files.**

1. **Product Query**
2. **Customer Query**
3. **Exit**

**Code:**

ProductQuery()

{

echo "enter product no "

read pno

echo "details of $pno product are "

grep "$pno" MasterData

echo "do you want to see another product (y/n) ? "

read ans

if [ $ans = "y" ]

then

ProductQuery

else

sh Q5

fi

break

}

CustomerQuery()

{

echo "enter customer code "

read cno

echo "details of $cno customer are "

grep "$cno" TransData

echo "do you want to see another customer(y/n) ?"

read ans

if [ $ans = "y" ]

then

CustomerQuery

else

sh Q5

fi

break

}

echo "Select your choice "

echo "1. Product Query"

echo "2. Customer Query"

echo "3. Exit"

while [ true ]

do

echo "Enter your Choice"

read ch

case $ch in

1)ProductQuery;;

2)CustomerQuery;;

3)exit;;

\*)echo "Wrong Choice";;

esac

done

**Output:**

[tybscit@localhost ~]$ sh test 5

Select your choice

1. Product Query
2. Customer Query
3. Exit

Enter your Choice 1

enter product no p02

details of p02 product are p02:Lexi:20:Pen

do you want to see another product (y/n) ? n