ASSIGNMENT:Day 6

**1.Write a shell script to create a menu driven program for adding, deletion or finding a record in a database. Database should have the field like rollno, name, semester and marks of three subjects. Last option of the menu should be to exit the menu.**

[user1@localhost day6]$ nano database1.sh

#!/bin/bash

flag=0

while [ $flag == 0 ]

do

echo "Menu for Student FILE"

echo "1.Adding a record"

echo "2.Deleting a record"

echo "3.Finding a record"

echo "4.Exit"

read -p "enter your choice:" ch

case $ch in

1)

cat student

read -p "enter roll no:" rno

read -p "enter name:" name

read -p "enter semester number:" sem

read -p "enter the total marks of 3 subjects:" mk

echo "$rno:$name:$sem:$mk" >> student

cat student

;;

2)

cat student

read -p "select the record to be deleted" rdel

sed -i "/$rdel/d" student

cat student

;;

3)

read -p "enter the value to search in the file" fvalue

cat student | grep $fvalue

;;

4)

flag=1

;;

esac

done

**OUTPUT:**

[user1@localhost day6]$ ./database1.sh

Menu for Student FILE

1.Adding a record

2.Deleting a record

3.Finding a record

4.Exit

enter your choice:1

enter roll no:10

enter name:Reshma

enter semester number:2

enter the total marks of 3 subjects:890

10:Reshma:2:890

Menu for Student FILE

1.Adding a record

2.Deleting a record

3.Finding a record

4.Exit

enter your choice:1

10:Reshma:2:890

enter roll no:20

enter name:Sam

enter semester number:3

enter the total marks of 3 subjects:678

10:Reshma:2:890

20:Sam:3:678

Menu for Student FILE

1.Adding a record

2.Deleting a record

3.Finding a record

4.Exit

enter your choice:1

10:Reshma:2:890

20:Sam:3:678

enter roll no:30

enter name:bob

enter semester number:4

enter the total marks of 3 subjects:798

10:Reshma:2:890

20:Sam:3:678

30:bob:4:798

[user1@localhost day6]$ ./database1.sh

Menu for Student FILE

1.Adding a record

2.Deleting a record

3.Finding a record

4.Exit

enter your choice:2

10:Reshma:2:890

20:Sam:3:678

30:bob:4:798

select the record to be deleted:20

10:Reshma:2:890

30:bob:4:798

Menu for Student FILE

1.Adding a record

2.Deleting a record

3.Finding a record

4.Exit

enter your choice:3

enter the value to search in the file:bob

30:bob:4:798

Menu for Student FILE

1.Adding a record

2.Deleting a record

3.Finding a record

4.Exit

enter your choice:4

**2.Write a unix shell to add records to a file called item.dat The fields being itemcode, qty, sold and rate item\_code to be generated qty\_sold should be greater than 0 rate between 100 to 10000**

[user1@localhost day6]$ nano item.sh

#! /bin/bash

echo "Entering record in item.dat file"

read -p "Enter a Itemcode:" code

read -p "Enter Quantity sold:" qty

read -p "Enter Rate:" rate

if [ $rate -gt 100 ]

then

echo "$rate"

num=` tail -n 1 item.dat | cut -d ' ' -f1`

num=$((num+1))

echo "$num $code $qty $rate" >> item.dat

fi

**OUTPUT:**

[user1@localhost day6]$ ./item.sh

Entering record in item.dat file

Enter a Itemcode:4

Enter Quantity sold:50

Enter Rate:500

500

[user1@localhost day6]$ cat item.dat

1 1 10 100

2 25 50 100

3 4 50 500

**3.Write a scripts which copies the content of file1 to file2 without using cp command It should check If file has a read permissions if not it should print an error message. If file2 exits then it should ask the user whether he wants to overwrite it.**

[user1@localhost day6]$ nano filecopy.sh

#!/bin/bash

echo "file transfer"

ls

read -p "select th source file:" f1

read -p "select the destination file:" f2

if [ -r $f1 ]

then

echo "content of source file"

cat $f1

echo "content of destination file before transfer"

echo "source file is readable so can be transfered to destination"

cat $f1 >> $f2

echo "content of destination file after transfer of content"

cat $f2

else

echo "source file is not readable"

fi

**OUTPUT:**

total 40

-rwxrwxrwx. 1 user1 user1 820 May 19 05:28 database.sh

-rwxrwxrwx. 1 user1 user1 116 May 18 12:35 delet.sh

-rwxrwxrwx. 1 user1 user1 28 May 19 12:20 f1.sh

-rwxrwxrwx. 1 user1 user1 1 May 19 12:26 f2.sh

-rw-rw-r--. 1 user1 user1 0 May 18 12:47 file1

-rw-rw-r--. 1 user1 user1 0 May 18 12:47 file2

-rw-rw-r--. 1 user1 user1 0 May 18 12:47 file3

-rw-rw-r--. 1 user1 user1 0 May 19 07:13 file5

-rwxrwxrwx. 1 user1 user1 417 May 19 12:21 filecopy.sh

-rwxrwxrwx. 1 user1 user1 34 May 19 07:08 item.dat

-rwxrwxrwx. 1 user1 user1 293 May 19 07:07 item.sh

-rw-rw-r--. 1 user1 user1 196 May 19 05:24 student

-rw-rw-r--. 1 user1 user1 66 May 19 05:12 students

-rwxrwxrwx. 1 user1 user1 1 May 19 05:10 student.sh

[user1@localhost day6]$ ./filecopy.sh

file transfer

database.sh f1.sh file1 file3 filecopy.sh item.sh students

delet.sh f2.sh file2 file5 item.dat student student.sh

select th source file:f1.sh

select the destination file:f2.sh

content of source file

1.Reshma

2.shubham

3.suraj

content of destination file before transfer

source file is readable so can be transfered to destination

content of destination file after transfer of content

1.Reshma

2.shubham

3.suraj

**4. Write a shell scripts that delete all files in current directory with 0 byte.**

[user1@localhost day6]$ nano delet.sh

! /bin/bash

ls

for x in \*

do

if [ -s $x ]

then

continue

else

rm -rf $x

fi

ls

done

**OUTPUT:**

[user1@localhost day6]$ ./delet.sh

delet.sh file1 file2 file3 file4 file5

delet.sh file2 file3 file4 file5

delet.sh file3 file4 file5

delet.sh file4 file5

delet.sh file5

delet.sh

5. Write a shell script to display a directory listing as follows. Your home directory is <home directory name>

File name date time permission

------------- ------ ----- ---------------

Filename1 date time permission

Filename2 date time permission

Filename3 date time permission

………..

………..

Total no. of files : <total number>

Total no of normal file : <number>

Total no of directory : <number>

[user1@localhost day6]$ nano dateper.sh

!/bin/bash

echo "Showing all the files in present directory"

ls -l

total=`ls -l | wc -l`

total=$((total-1))

echo "Total no of files=$total"

normalf=`ls -l | grep ^- | wc -l`

echo "Total no of noraml file =$normalf"

dirno=`ls -l | grep dr | wc -l`

echo "Total no of diectroy=$dirno"

OUTPUT:

[user1@localhost day6]$ ./dateper.sh

Showing all the files in present directory

total 44

-rwxrwxrwx. 1 user1 user1 820 May 19 05:28 database.sh

-rwxrwxrwx. 1 user1 user1 285 May 19 12:51 dateper.sh

-rwxrwxrwx. 1 user1 user1 116 May 18 12:35 delet.sh

-rwxrwxrwx. 1 user1 user1 28 May 19 12:20 f1.sh

-rwxrwxrwx. 1 user1 user1 1 May 19 12:26 f2.sh

-rw-rw-r--. 1 user1 user1 0 May 18 12:47 file1

-rw-rw-r--. 1 user1 user1 0 May 18 12:47 file2

-rw-rw-r--. 1 user1 user1 0 May 18 12:47 file3

-rw-rw-r--. 1 user1 user1 0 May 19 07:13 file5

-rwxrwxrwx. 1 user1 user1 417 May 19 12:21 filecopy.sh

-rwxrwxrwx. 1 user1 user1 34 May 19 07:08 item.dat

-rwxrwxrwx. 1 user1 user1 293 May 19 07:07 item.sh

-rw-rw-r--. 1 user1 user1 196 May 19 05:24 student

-rw-rw-r--. 1 user1 user1 66 May 19 05:12 students

-rwxrwxrwx. 1 user1 user1 1 May 19 05:10 student.sh

Total no of files=15

Total no of noraml file =15

Total no of diectroy=0