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Activities Terminal Jun 20 12:53 student@coep-HLB5-CM-44: ~
student@coep-HLB5-CM-44:~$ cat > testfor
#!/bin/sh
if [ $# -eq 0 ]
then
echo "Error - number missing from command line argument"
echo "Syntax : $0 number"
echo "Use to print multiplication table for a given number"
exit 1
fi
n=$1
for l in 1 2 3 4 5 6 7 8 9 10
do
echo "$n * $l = `expr $l \* $n`"
done
^C
student@coep-HLB5-CM-44:~$ chmod 755 testfor
student@coep-HLB5-CM-44:~$ ./testfor 8
8 * 1 = 8
8 * 2 = 16
8 * 3 = 24
8 * 4 = 32
8 * 5 = 40
8 * 6 = 48
8 * 7 = 56
8 * 8 = 64
8 * 9 = 72
8 * 10 = 80
student@coep-HLB5-CM-44:~$
```

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Activities Terminal Jun 20 12:58 student@coop-HLBS-CM-44: -
student@coop-HLBS-CM-44:~$ cat > nt1
#!/bin/sh
#
#Script to test while statement
#
#
if [ $# -eq 0 ]
then
    echo "Error - Number missing form command line argument"
    echo "Syntax : $0 number"
    echo " Use to print multiplication table for given number"
    exit 1
fi
n=$1
i=1
while [ $i -le 10 ]
do
    echo "$n * $i = `expr $i \* $n`"
    i=`expr $i + 1`
done
^C
student@coop-HLBS-CM-44:~$ chmod 755 nt1
student@coop-HLBS-CM-44:~$ ./nt1 7
7 * 1 = 7
7 * 2 = 14
7 * 3 = 21
7 * 4 = 28
7 * 5 = 35
7 * 6 = 42
7 * 7 = 49
7 * 8 = 56
7 * 9 = 63
7 * 10 = 70
student@coop-HLBS-CM-44:~$
```

```
Activities Terminal Jun 20 13:00 student@coep-HLBS-CM-44: ~  
student@coep-HLBS-CM-44:~$ cat > car  
#  
# if no vehicle name is given  
# i.e. -z $1 is defined and it is NULL  
#  
# if no command line arg  
if [ -z $1 ]  
then  
    rental="*** Unknown vehicle ***"  
elif [ -n $1 ]  
then  
    # otherwise make first arg as rental  
    rental=$1  
fi  
  
case $rental in  
    "car") echo "For $rental Rs.20 per k/m";;  
    "van") echo "For $rental Rs.10 per k/m";;  
    "jeep") echo "For $rental Rs.5 per k/m";;  
    "bicycle") echo "For $rental 20 paisa per k/m";;  
    *) echo "Sorry, I can not get a $rental for you";;  
esac  
student@coep-HLBS-CM-44:~$ chmod +x car  
student@coep-HLBS-CM-44:~$ car van  
Command 'car' not found, but can be installed with:  
  
apt install ucommon-utils  
Please ask your administrator.  
  
student@coep-HLBS-CM-44:~$ ./car van  
For van Rs.10 per k/m  
student@coep-HLBS-CM-44:~$ ./car car  
For car Rs.20 per k/m  
student@coep-HLBS-CM-44:~$ ./car maruti-800  
Sorry, I can not get a maruti-800 for you  
student@coep-HLBS-CM-44:~$
```

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Activities Terminal
Jun 20 12:47
student@coep-HLBS-CM-44: ~

student@coep-HLBS-CM-44:~$ cat > newfile1
#!/bin/sh
if [ $# -eq 0 ]
then
echo "$0 : you must give/supply one integer"
exit 1
fi
if test $1 -gt 0
then
echo "$1 number is positive"
else
echo "$1 number is negative"
fi
^C
student@coep-HLBS-CM-44:~$ ls
1          assign1.5CMS.c  chirag2.py  chirag5.py  'Dipanshu assignment 3(2)'  DSA1_Assignment1_Q1.c  fold46  Linux  Public  sohan
2.cmake    assign1.6CMS.c  chirag31.py chirag7.py  'Dipanshu assignment3(2a)'  DSA1_Assignment1_Q2.c  fold53  mergeSerh  python  tempCodeRunnerFile.c
5.py       assign1.7CMS.c  chirag32.py chirag8.py  'Dipanshu assignment 3(3)'  DSA1_demo.c           fold63  Music  q.py  Templates
7          assign1CMS.c    chirag33.py chirag9.py  'dipanshu assignment 3(4)'  DSV_1                 fold65  newfile1  ros_vs  test.c
a.out      Assignment      chirag34.py ctrconference.py  'Dipanshu assignment 3(6)'  e.py                  'foldname 1'  r.py  schena  t.py
area.c     'assignment 4'  chirag35.py code          direct          filename         'Import random.py'  shubh  showfile  'Untitled Document 1'
area.l     Assignment.c.save  chirag36.py coepfolder    files            first.c           PH1_assign  siddhant  u.py
area.o     bar.py          chirag37.py c_prog        first.o          Intro.c           pps         sinraa  vico
assign1.2CMS.c  coapp          chirag42.py demo.py        documents        i.py             pranav      sinus  w.py
assign1.3CMS.c chess          chirag43.py Desktop      Downloads       'foldname 1'     fold45      java    projects  snap  y.py
assign1.4CMS.c chirag18.py    chirag47.py 'dipanshu assignment 3(1)'

student@coep-HLBS-CM-44:~$ chmod 755 lsunp_n
chmod: cannot access 'lsunp_n': No such file or directory
student@coep-HLBS-CM-44:~$ chmod 755 area.c
student@coep-HLBS-CM-44:~$ area.c 5
area.c: command not found
student@coep-HLBS-CM-44:~$ chmod 755 newfile1
student@coep-HLBS-CM-44:~$ newfile1 5
newfile1: command not found
student@coep-HLBS-CM-44:~$ ./newfile1 5
5 number is positive
student@coep-HLBS-CM-44:~$ ./newfile1 0
0 number is negative
student@coep-HLBS-CM-44:~$ ./newfile1 -1
-1 number is negative
student@coep-HLBS-CM-44:~$
```

```
Activities Terminal Jun 20 12:38 student@coep-HLBS-CM-44: ~
student@coep-HLBS-CM-44:~$ cat > showfile
#!/bin/sh
#
#script to print file
#
if cat $1
then
echo -e "\n\nFile $1, found and successfully echoed"
fi
student@coep-HLBS-CM-44:~$ chmod 755 showfile
student@coep-HLBS-CM-44:~$ ./showfile foo
cat: foo: No such file or directory
student@coep-HLBS-CM-44:~$ ./showfile
^C
student@coep-HLBS-CM-44:~$ ls
1          assign1_5CMS.c  chirag2.py  chirag5.py  'Dipanshu assignment 3(2)'  DSA1_Assignment1_Q1.c  fold46  Linux  python  tempCodeRunnerFile
2CMS.c    assign1_6CMS.c  chirag31.py chirag7.py  'Dipanshu assignment3(2a)'  DSA1_Assignment1_Q2.c  fold53  mergeSerh q.py      tempCodeRunnerFile.c
5.py      assign1_7CMS.c  chirag32.py chirag8.py  'Dipanshu assignment 3(3)'  DSA1_demo.c          fold63  Basic     ros_ws  Templates
7         assign1CMS.c  chirag33.py chirag9.py  'dipanshu assignment 3(4)'  DSV_1                fold65  Basic     r.py    test.c
a.out     Assignment      chirag34.py ctrconference.py 'Dipanshu assignment 3(6)'  e.py              'foldname 1'  Pictures showfile 'Untitled Document 1'
area.c    'assignment 4'  chirag35.py code          direct         'foldername 1'  PPL_assign  shubh  siddhant u.py
area.t    Assignment.c.save bar.py        chirag36.py  coepfolder  div           'import random.py'  pps      siddhant Videos
area.o    bar.py         chirag37.py  code         divi          first.c        ppts     sinran  vive
assign1_2CMS.c coeppp        chirag42.py  c_prog      divi7c7      first.o        pps      sinan   w.py
assign1_3CMS.c coepss        chirag43.py  Desktop     documents     i.py          i.py      projects snap  y.py
assign1_4CMS.c chirag18.py   chirag47.py  'dipanshu assignment 3(1)'  Downloads
student@coep-HLBS-CM-44:~$ ./showfile area.c
#include<stdio.h>
int main()
{
    float r,p;
    p=3.14;
    printf("Enter the Radius of Circle ");
    scanf("%f",&r);
    printf("Area of circle is %.2f\n", p*r*r);
    return 0;
}
-e
File area.c, found and successfully echoed
student@coep-HLBS-CM-44:~$
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Activities Terminal Jun 20 13:05 student@coep-HLBS-CM-44: ~
student@coep-HLBS-CM-44:~$ cat > nestedfor
for (( i = 1; i <= 5; i++ )) ### Outer for loop ###
do
    for (( j = 1 ; j <= 5; j++ )) ### Inner for loop ###
    do
        echo -n "S"
    done
    echo "" #### print the new line ###
done
^C
student@coep-HLBS-CM-44:~$ chmod 755 nestedfor
student@coep-HLBS-CM-44:~$ ./nestedfor 5
1 1 1 1 1
2 2 2 2 2
3 3 3 3 3
4 4 4 4 4
5 5 5 5 5
student@coep-HLBS-CM-44:~$ cat > chessboard
for (( i = 1; i <= 9; i++ )) ### Outer for loop ###
do
    for (( j = 1 ; j <= 9; j++ )) ### Inner for loop ###
    do
        tot=$(( i + j ))
        tmp=$(( tot % 2 ))
        if [ $tmp -eq 0 ]; then
            echo -n "\033[47m "
        else
            echo -n "\033[40m "
        fi
    done
    echo -n "\033[40m" #### set back background colour to black
    echo "" #### print the new line ###
done
^C
student@coep-HLBS-CM-44:~$ chmod 755 chessboard
student@coep-HLBS-CM-44:~$ ./chessboard

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