

# BASH

MAY 2022

PEKMEZCI

# **CODES**

- <https://github.com/mehmetpekmezci/GTU-ENG-346/tree/main/bash-codes>

# RULES

## **RULE #1:**

Prepare a test environment before directly running on the real system.

## **RULE #2:**

Test your commands and their outputs, then construct your script by using the commands you tested.

## **RULE #3:**

Edit your script in a Linux editor or, in a code editor like VSCode or Notepad++ on windows.

# EXPORT VARIABLES / BASH\_SOURCE

```
echo "#####"
echo "##### EXPORT          #####"
echo "#####"
echo ""

MYVAR="VALUE1"
echo '
echo "MYVAR variable in export.release.sh : -- $MYVAR --"
MYVAR="VALUE2"
export MYVAR
' > export.release.sh

chmod +x ./export.release.sh
./export.release.sh
echo "MYVAR variable in main script : $MYVAR"

echo "#####"

export MYVAR
echo "Now exporting MYVAR in main script"
./export.release.sh
echo "#####"

source ./export.release.sh
echo "MYVAR variable in main script : $MYVAR after sourcing export.release.sh"

echo ""
echo "#####"
echo "##### BASH_SOURCE          #####"
echo "#####"
echo ""

echo '
CURRENT_DIR=$( cd "$( dirname "${BASH_SOURCE[0]}" )" && pwd )
export CURRENT_DIR
' > bash_source.release.sh

./bash_source.release.sh

echo "CURRENT_DIR variable in main script : $CURRENT_DIR after sourcing bash_source.release.sh"
```

```
#####

##### EXPORT          #####

#####
```

MYVAR variable in export.release.sh : -- --  
MYVAR variable in main script : VALUE1

```
#####
```

Now exporting MYVAR in main script  
MYVAR variable in export.release.sh : -- VALUE1 --

```
#####
```

MYVAR variable in export.release.sh : -- VALUE1 --  
MYVAR variable in main script : VALUE2 after sourcing export.release.sh

```
#####

##### BASH_SOURCE          #####

#####
```

CURRENT\_DIR variable in main script : /home/mpekmezci/bash after sourcing bash\_source.release.sh

# PARAMETERS / FUNCTIONS / IF / FIND

```
#!/bin/bash★  
  
SCRIPT_NAME="$0"★  
  
function print_usage_and_exit {  
    tput setaf 1 ## RED★  
    tput bold  
    echo "$1"  
    echo "Usage: ${SCRIPT_NAME} <dir> <expression> [a|d|f|l] <depth>"  
    tput sgr0  
    exit 1  
}  
  
if [ $# -lt 2 ]  
then  
    print_usage_and_exit "Wrong number of parameters :"  
fi  
  
DIR="$1"  
EXPRESSION="$2"★  
TYPE="$3"  
DEPTH="$4"  
  
if [ ! -d $DIR ]; then print_usage_and_exit "Directory $DIR does not exist"; fi  
  
if [ "$TYPE" != "" -a "$TYPE" != "a" -a "$TYPE" != "d" -a "$TYPE" != "f" -a "$TYPE" != "l" ]  
then  
    print_usage_and_exit "Type can only be one of the a,d,f,l or no-parameter"  
fi  
  
DEPTH_FIND_ARGUMENT=""  
if [ "$DEPTH" != "" ]; then DEPTH_FIND_ARGUMENT="-maxdepth $DEPTH"; fi  
  
TYPE_FIND_ARGUMENT=""  
if [ "$TYPE" != "" ]; then TYPE_FIND_ARGUMENT="-type $TYPE"; fi  
  
echo "find $DIR $DEPTH_FIND_ARGUMENT $TYPE_FIND_ARGUMENT -name $EXPRESSION"  
find $DIR $DEPTH_FIND_ARGUMENT $TYPE_FIND_ARGUMENT -name "$EXPRESSION"
```

Annotations:   
- **\$#, \$?, \$!** (pointing to `$#`)  
- **-lt, -gt, -eq, -le, -ge** (pointing to `-lt 2`)  
- **-d, -f, -e** (pointing to `-d $DIR`)  
- **-a, -O** (pointing to `-a "$TYPE" != ""`)

```
[mpekmezci@dev-host-01 bash]$ chmod +x 01.command.line.parameters.sh  
[mpekmezci@dev-host-01 bash]$ ./01.command.line.parameters.sh /var/tmp/mpekmezci/ *  
find /var/tmp/mpekmezci/ -name 01.command.line.parameters.sh  
[mpekmezci@dev-host-01 bash]$ ./01.command.line.parameters.sh /var/tmp/mpekmezci/ '*'  
find /var/tmp/mpekmezci/ -name *  
/var/tmp/mpekmezci/  
/var/tmp/mpekmezci/dir1  
/var/tmp/mpekmezci/dir1/file2  
/var/tmp/mpekmezci/dir1/file1  
/var/tmp/mpekmezci/link_to_dir1  
[mpekmezci@dev-host-01 bash]$ ./01.command.line.parameters.sh /var/tmp/mpekmezci/ '*' d  
find /var/tmp/mpekmezci/ -type d -name *  
/var/tmp/mpekmezci/  
/var/tmp/mpekmezci/dir1  
[mpekmezci@dev-host-01 bash]$ ./01.command.line.parameters.sh /var/tmp/mpekmezci/ '*' d 1  
find /var/tmp/mpekmezci/ -maxdepth 1 -type d -name *  
/var/tmp/mpekmezci/  
/var/tmp/mpekmezci/dir1  
[mpekmezci@dev-host-01 bash]$ ./01.command.line.parameters.sh /var/tmp/mpekmezci/ '*' l 1  
find /var/tmp/mpekmezci/ -maxdepth 1 -type l -name *  
/var/tmp/mpekmezci/link_to_dir1  
[mpekmezci@dev-host-01 bash]$ ./01.command.line.parameters.sh /var/tmp/mpekmezci/  
Wrong number of parameters :  
Usage: ./01.command.line.parameters.sh <dir> <expression> [a|d|f|l] <depth>  
[mpekmezci@dev-host-01 bash]$ ./01.command.line.parameters.sh /var/tmp/mpekmezci/ '*' z  
Type can only be one of the a,d,f,l or no-parameter  
Usage: ./01.command.line.parameters.sh <dir> <expression> [a|d|f|l] <depth>  
[mpekmezci@dev-host-01 bash]$ ./01.command.line.parameters.sh /var/tmp/mpekmezci1/ '*'  
Directory /var/tmp/mpekmezci1/ does not exist  
Usage: ./01.command.line.parameters.sh <dir> <expression> [a|d|f|l] <depth>  
[mpekmezci@dev-host-01 bash]$
```

# ASSIGN / TR / IFS

```
#!/bin/bash
echo "#####"
echo "##### ASSIGN OUTPUT OF A COMMAND TO A VARIABLE #####"
echo "#####"
echo ""
hostname
HOSTTYPE=$(hostname | cut -d- -f1)
if [ "$HOSTTYPE" == "dev" ]
then
    echo "This is a development host"
fi

echo ""
echo "#####"
echo "##### TR COMMAND USAGE #####"
echo "#####"
echo ""

export LD_LIBRARY_PATH=$LD_LIBRARY_PATH:/opt/eclipse/lib:/opt/havelsan/lib
echo $LD_LIBRARY_PATH | tr ':' '\n' | grep havelsan

echo ""
echo "#####"
echo "##### IFS VARIABLE USAGE #####"
echo "#####"
echo ""

echo " word1 word1.1 word1.2
word2.1 word2.2 word2.3" > /var/tmp/file1.txt

for i in $(cat /var/tmp/file1.txt); do echo $i; done
OLDIFS=$IFS
IFS="
"
for i in $(cat /var/tmp/file1.txt); do echo $i; done
IFS=$OLDIFS
```

```
#####
##### ASSIGN OUTPUT OF A COMMAND TO A VARIABLE #####
#####
```

dev-host-01  
This is a development host

```
#####
##### TR COMMAND USAGE #####
#####
```

/opt/havelsan/jdk11/jdk-11.0.9/lib  
/opt/havelsan/lib

```
#####
##### IFS VARIABLE USAGE #####
#####
```

word1  
word1.1  
word1.2  
word2.1  
word2.2  
word2.3  
word1 word1.1 word1.2  
word2.1 word2.2 word2.3

# AWK / CUT / SED

```
#!/bin/bash
echo ""
echo "#####"
echo "##### AWK USAGE #####"
echo "#####"
echo ""

ls -l
echo ""
ls -l | awk '{print $1-"$9}'
echo ""
ls -l | grep -v total | awk '{print $1-"$9}'

echo ""
echo "#####"
echo "##### CUT USAGE #####"
echo "#####"
echo ""

echo $PATH
echo $PATH | cut -d: -f1,2
echo "project-platform" | cut -d- -f2

echo ""
echo "#####"
echo "##### SED USAGE #####"
echo "#####"
echo ""

echo "mykey=myvalue"
echo "mykey=myvalue" | sed -e 's/./*/'
echo "mykey=myvalue" | sed -e 's/=/:/'
echo "mykey=myvalue" > /var/tmp/temp1
cat /var/tmp/temp1 | sed -e 's/=/:/' > /var/tmp/temp2
cat /var/tmp/temp2
```

```
#####
##### AWK USAGE #####
#####
```

```
total 12
-rwxr-xr-x. 1 mpekmezci admin 925 May 12 15:44 01.command.line.parameters.sh
-rwxr-xr-x. 1 mpekmezci admin 1242 May 23 09:16 02.assign.tr.ifs.sh
-rwxr-xr-x. 1 mpekmezci admin 1160 May 23 09:23 03.awk.cut.sed.sh
```

```
total-
-rwxr-xr-x.-01.command.line.parameters.sh
-rwxr-xr-x.-02.assign.tr.ifs.sh
-rwxr-xr-x.-03.awk.cut.sed.sh
```

```
-rwxr-xr-x.-01.command.line.parameters.sh
-rwxr-xr-x.-02.assign.tr.ifs.sh
-rwxr-xr-x.-03.awk.cut.sed.sh
```

```
#####
##### CUT USAGE #####
#####
```

```
/home/mpekmezci/.local/bin:/home/mpekmezci/bin:/opt/havelsan/jdk11/jdk-11.0.9/bin:/opt/havelsan/
eclipse:/opt/gradle/gradle-7.4.2/bin:/opt/eclipse/eclipse:/usr/local/bin:/usr/bin:/usr/local/sbin:/usr/sbin
/home/mpekmezci/.local/bin:/home/mpekmezci/bin
platform
```

```
#####
##### SED USAGE #####
#####
```

```
mykey=myvalue
myvalue
mykey:myvalue
mykey:myvalue
```

# TIMESTAMP / LOGGING / STDOUT / STDERR

```
#!/bin/bash
echo ""
echo "#####"
echo "##### TIMESTAMP AND LOGGING USAGE #####"
echo "#####"
echo ""

TIMESTAMP=$(date '+%Y%m%d%H%M%S')
echo $TIMESTAMP
(
  hostname
) >& /var/tmp/mylog.$TIMESTAMP

(
  hostname
) 1> /var/tmp/stdout.log.$TIMESTAMP

(
  hostname1
) 2> /var/tmp/stderr.log.$TIMESTAMP

for i in /var/tmp/*.${TIMESTAMP}; do echo ""; echo ""; echo "File :$i";echo "Content:"; cat $i; done
```

```
#####
##### TIMESTAMP AND LOGGING USAGE #####
#####
```

20220523112127

File :/var/tmp/mylog.20220523112127  
Content:  
dev-host-01

File :/var/tmp/stderr.log.20220523112127  
Content:  
./04.timestamp.logging.for.sh: line 19: hostname1: command not found

File :/var/tmp/stdout.log.20220523112127  
Content:  
dev-host-01



# FOR

```
#!/bin/bash
echo ""
echo "#####"
echo "##### FOR USAGE 1 #####"
echo "#####"
echo ""

MAX=4
for((i=0;i<$MAX;i=i+1)); do echo $i; done

echo ""
echo "#####"
echo "##### FOR USAGE 2 #####"
echo "#####"
echo ""
touch /var/tmp/testfile1.txt /var/tmp/testfile2.txt
for myfile in /var/tmp/*.txt
do
    echo "Txt file name is $myfile"
done

echo "#####"
echo "##### FOR USAGE 3 #####"
echo "#####"
echo ""

echo "machine1:type1
machine2:type2
machine3:type1" > nodes.txt
for line in $(cat nodes.txt)
do
    machine=$(echo $line | cut -d\# -f1)
    mtype=$(echo $line | cut -d\# -f2)
    echo "Machine name is $machine which is of type $mtype "
done
```

```
#####
##### FOR USAGE 1 #####
#####

0
1
2
3

#####
##### FOR USAGE 2 #####
#####

Txt file name is /var/tmp/file1.txt
Txt file name is /var/tmp/testfile1.txt
Txt file name is /var/tmp/testfile2.txt
#####
##### FOR USAGE 3 #####
#####

Machine name is machine1:type1 which is of type machine1:type1
Machine name is machine2:type2 which is of type machine2:type2
Machine name is machine3:type1 which is of type machine3:type1
```

# SSH

```
#!/bin/bash
echo ""
echo "#####"
echo "##### SSH KEYGEN #####"
echo "#####"
echo ""

ssh-keygen

echo ""
echo "#####"
echo "##### SSH KEY DISTRIBUTE #####"
echo "#####"
echo ""

echo "dev-host-02
dev-host-03" > nodes.txt
for node in $(cat nodes.txt)
do
    cat ~/.ssh/id_rsa.pub | ssh mpekmezci@$node "mkdir -p ~/.ssh && cat >> ~/.ssh/authorized_keys"
done

for node in $(cat nodes.txt)
do
    ssh mpekmezci@$node "hostname"
done
```

```
#####
##### SSH KEYGEN #####
#####
```

Generating public/private rsa key pair.  
Enter file in which to save the key (/home/mpekmezci/.ssh/id\_rsa):  
/home/mpekmezci/.ssh/id\_rsa already exists.  
Overwrite (y/n)?

```
#####
##### SSH KEY DISTRIBUTE #####
#####
```

mpekmezci@dev-host-02's password:  
mpekmezci@dev-host-03's password:  
dev-host-02  
dev-host-03

# FIND AND REPLACE BATCH

```
#!/bin/bash
echo ""
echo "#####"
echo "##### FIND AND REPLACE #####"
echo "#####"
echo ""

find /var/tmp/eclipse/ -type f -name 'license.*'
echo ""
echo "#####"
echo ""
find /var/tmp/eclipse/ -type f -name 'license.*' | xargs grep equinox
echo ""
echo "#####"
echo ""
find /var/tmp/eclipse/ -type f -name 'license.*' | xargs grep equinox | cut -d: -f1 | sort|uniq
echo ""
echo "#####"
echo ""
file=$(find /var/tmp/eclipse/ -type f -name 'license.*' | xargs grep equinox | cut -d: -f1 | sort|uniq | head -1)
grep equinox $file
echo ""
echo "#####"
echo ""
i=0
for file in $(find /var/tmp/eclipse/ -type f -name 'license.*' | xargs grep equinox | cut -d: -f1 | sort|uniq)
do
    perl -pi -e "s/equinox/equinox$i/" $file
    ((i=i+1))
    grep equinox $file
done
```

```
#####
##### FIND AND REPLACE #####
#####
```

```
/var/tmp/eclipse/org.eclipse.equinox.p2.discovery.feature_1.2.700.v20200705-1016/license.html
/var/tmp/eclipse/org.eclipse.equinox.p2.core.feature_1.6.700.v20200813-0739/license.html
/var/tmp/eclipse/org.eclipse.equinox.p2.user.ui_2.4.900.v20200828-0839/license.html
/var/tmp/eclipse/org.eclipse.equinox.p2.rcp.feature_1.4.900.v20200813-0739/license.html
/var/tmp/eclipse/org.eclipse.equinox.p2.extras.feature_1.4.900.v20200828-0839/license.html
```

```
#####
```

```
/var/tmp/eclipse/org.eclipse.equinox.p2.discovery.feature_1.2.700.v20200705-1016/license.html:
href="http://eclipse.org/equinox/p2/repository_packaging.html">http://eclipse.org/equinox/p2/repository_packaging.html</a>
/var/tmp/eclipse/org.eclipse.equinox.p2.core.feature_1.6.700.v20200813-0739/license.html:
href="http://eclipse.org/equinox/p2/repository_packaging.html">http://eclipse.org/equinox/p2/repository_packaging.html</a>
/var/tmp/eclipse/org.eclipse.equinox.p2.user.ui_2.4.900.v20200828-0839/license.html:
href="http://eclipse.org/equinox/p2/repository_packaging.html">http://eclipse.org/equinox/p2/repository_packaging.html</a>
/var/tmp/eclipse/org.eclipse.equinox.p2.rcp.feature_1.4.900.v20200813-0739/license.html:
href="http://eclipse.org/equinox/p2/repository_packaging.html">http://eclipse.org/equinox/p2/repository_packaging.html</a>
/var/tmp/eclipse/org.eclipse.equinox.p2.extras.feature_1.4.900.v20200828-0839/license.html:
href="http://eclipse.org/equinox/p2/repository_packaging.html">http://eclipse.org/equinox/p2/repository_packaging.html</a>
```

```
#####
```

```
/var/tmp/eclipse/org.eclipse.equinox.p2.core.feature_1.6.700.v20200813-0739/license.html
/var/tmp/eclipse/org.eclipse.equinox.p2.discovery.feature_1.2.700.v20200705-1016/license.html
/var/tmp/eclipse/org.eclipse.equinox.p2.extras.feature_1.4.900.v20200828-0839/license.html
/var/tmp/eclipse/org.eclipse.equinox.p2.rcp.feature_1.4.900.v20200813-0739/license.html
/var/tmp/eclipse/org.eclipse.equinox.p2.user.ui_2.4.900.v20200828-0839/license.html
```

```
#####
```

```
href="http://eclipse.org/equinox/p2/repository_packaging.html">http://eclipse.org/equinox/p2/
repository_packaging.html</a>
```

```
#####
```

```
href="http://eclipse.org/equinox0/p2/repository_packaging.html">http://eclipse.org/equinox/p2/
repository_packaging.html</a>
href="http://eclipse.org/equinox1/p2/repository_packaging.html">http://eclipse.org/equinox/p2/
repository_packaging.html</a>
href="http://eclipse.org/equinox2/p2/repository_packaging.html">http://eclipse.org/equinox/p2/
repository_packaging.html</a>
href="http://eclipse.org/equinox3/p2/repository_packaging.html">http://eclipse.org/equinox/p2/
repository_packaging.html</a>
href="http://eclipse.org/equinox4/p2/repository_packaging.html">http://eclipse.org/equinox/p2/
repository_packaging.html</a>
```

# GREP

```
#!/bin/bash
echo ""
echo "#####"
echo "##### GREP #####"
echo "#####"
echo ""

grep equinox /var/tmp/eclipse/org.eclipse.equinox.p2.rcp.feature_1.4.900.v20200813-0739/
{*.properties,*.html} | head -2
echo ""
echo "#####"
echo ""

grep -A2 equinox /var/tmp/eclipse/org.eclipse.equinox.p2.rcp.feature_1.4.900.v20200813-0739/*.xml | tail
-4
echo ""
echo "#####"
echo ""

grep -R equinox /var/tmp/eclipse/ | head -2
echo ""
echo "#####"
echo ""

grep -R equinox /var/tmp/eclipse/ | tail -2
echo ""
echo "#####"
echo ""

grep -R equinox /var/tmp/eclipse/ | grep -v xml | tail -2
echo ""
echo "#####"
echo ""

grep -R 'id="warranty"\|featureName=.*support' /var/tmp/eclipse/ | head -3
echo ""
echo "#####"
echo ""
```

```
#####
##### GREP #####
#####

/var/tmp/eclipse/org.eclipse.equinox.p2.rcp.feature_1.4.900.v20200813-0739/feature.properties:http://eclipse.org/
equinox/p2/repository_packaging.html ("Specification").\n\
/var/tmp/eclipse/org.eclipse.equinox.p2.rcp.feature_1.4.900.v20200813-0739/license.html:
href="http://eclipse.org/equinox3/p2/repository_packaging.html">http://eclipse.org/equinox/p2/
repository_packaging.html</a>

#####

--
    id="org.eclipse.equinox.p2.ui.sdk"
    download-size="51"
    install-size="92"

#####

/var/tmp/eclipse/org.eclipse.equinox.p2.discovery.feature_1.2.700.v20200705-1016/feature.properties:http://
eclipse.org/equinox/p2/repository_packaging.html ("Specification").\n\
/var/tmp/eclipse/org.eclipse.equinox.p2.discovery.feature_1.2.700.v20200705-1016/feature.xml:
id="org.eclipse.equinox.p2.discovery.feature"

#####

/var/tmp/eclipse/org.eclipse.equinox.p2.extras.feature_1.4.900.v20200828-0839/feature.xml:
id="org.eclipse.equinox.p2.publisher.eclipse"
/var/tmp/eclipse/org.eclipse.equinox.p2.extras.feature_1.4.900.v20200828-0839/license.html:
href="http://eclipse.org/equinox2/p2/repository_packaging.html">http://eclipse.org/equinox/p2/
repository_packaging.html</a>

#####

/var/tmp/eclipse/org.eclipse.equinox.p2.extras.feature_1.4.900.v20200828-0839/feature.properties:http://eclipse.org/
equinox/p2/repository_packaging.html ("Specification").\n\
/var/tmp/eclipse/org.eclipse.equinox.p2.extras.feature_1.4.900.v20200828-0839/license.html:
href="http://eclipse.org/equinox2/p2/repository_packaging.html">http://eclipse.org/equinox/p2/
repository_packaging.html</a>

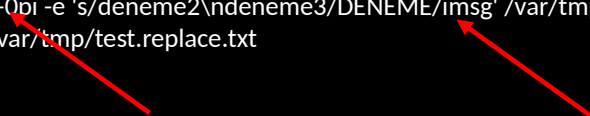
#####

/var/tmp/eclipse/org.eclipse.equinox.p2.discovery.feature_1.2.700.v20200705-1016/
feature.properties:featureName=Equinox p2, Discovery UI support
/var/tmp/eclipse/org.eclipse.equinox.p2.discovery.feature_1.2.700.v20200705-1016/epl-2.0.html:  <h2 id="warranty">5.
NO WARRANTY</h2>
/var/tmp/eclipse/org.eclipse.equinox.p2.core.feature_1.6.700.v20200813-0739/epl-2.0.html:  <h2 id="warranty">5. NO
WARRANTY</h2>
#####
```

# MUTILINE PERL REPLACE

```
#!/bin/bash
echo ""
echo "#####"
echo "##### PERL MUTLILINE REPLACEMENT #####"
echo "#####"
echo ""

echo "deneme1
deneme2
deneme3
deneme4
deneme5" >/var/tmp/test.replace.txt
cat /var/tmp/test.replace.txt
echo ""
echo "#####"
echo ""
perl -0pi -e 's/deneme2\ndeneme3/DENEME/img' /var/tmp/test.replace.txt
cat /var/tmp/test.replace.txt
```



```
#####
##### PERL MUTLILINE REPLACEMENT #####
#####
```

```
deneme1
deneme2
deneme3
deneme4
deneme5
```

```
#####
```

```
deneme1
DENEME
deneme4
deneme5
```

# STRCAT / HISTORY / PS / PGREP / UNAME / HOSTNAME

```
#!/bin/bash
echo ""
echo "#####"
echo "##### STRING CONCAT #####"
echo "#####"
echo ""

echo STR1=""
echo "red green blue" > colors.txt
for i in $(cat colors.txt); do if [ "$i" != "green" ]; then STR1="$STR1 $i";fi; done
echo $STR1

echo ""
echo "#####"
echo "##### HISTORY #####"
echo "#####"
echo ""

history | tail -5

echo ""
echo "#####"
echo "##### PS -EF vs pgrep -lfU #####"
echo "#####"
echo ""

pgrep -lfU mpekmezci
echo ""
echo "#####"
echo ""
ps -ef | grep mpek | tail -3

echo ""
echo "#####"
echo "##### UNAME #####"
echo "#####"
echo ""
uname -a

echo ""
echo "#####"
echo "##### HOSTNAME #####"
echo "#####"
echo ""
hostname
```

```
#####
##### STRING CONCAT #####
#####
```

STR1=  
red blue

```
#####
##### HISTORY #####
#####
```

```
#####
##### PS -EF vs pgrep -lfU #####
#####
```

```
477665 sshd
477672 bash
477735 sshd
477741 sftp-server
513236 10.strcat.tail.
1780322 systemd
1780333 (sd-pam)
1780411 dbus-daemon
```

```
#####
```

```
mpekmez+ 1780322 1 0 Jan23 ? 00:00:01 /usr/lib/systemd/systemd --user
mpekmez+ 1780333 1780322 0 Jan23 ? 00:00:00 (sd-pam)
mpekmez+ 1780411 1780322 0 Jan23 ? 00:00:00 /usr/bin/dbus-daemon --session --address=systemd: --
nofork --nopidfile --systemd-activation --syslog-only
```

```
#####
##### UNAME #####
#####
```

```
Linux dev-host-01 4.18.0-193.el8.x86_64 #1 SMP Fri May 8 10:59:10 UTC 2020 x86_64 x86_64 x86_64
GNU/Linux
```

```
#####
##### HOSTNAME #####
#####
```

dev-host-01

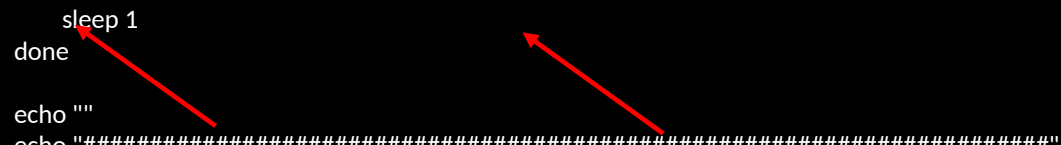
# WAIT / SLEEP

```
#!/bin/bash
echo ""
echo "#####"
echo "##### SLEEP #####"
echo "#####"
echo ""

RUNNING=true
while($RUNNING)
do
    date
    SECONDS=$(date +%S)
    if [ "$SECONDS" -gt 30 ]
    then
        RUNNING=false
    fi
    sleep 1
done

echo ""
echo "#####"
echo "##### WAIT #####"
echo "#####"
echo ""

(for ((i=0;i<5;i=i+1));do echo "A.$i"; sleep 1; done) &
(for ((i=0;i<5;i=i+1));do echo "B.$i"; sleep 1; done) &
wait
(for ((i=0;i<5;i=i+1));do echo "C.$i";done) &
```



```
#####
##### SLEEP #####
#####

Mon May 23 14:23:04 +03 2022
Mon May 23 14:23:05 +03 2022
Mon May 23 14:23:06 +03 2022
Mon May 23 14:23:07 +03 2022
Mon May 23 14:23:08 +03 2022
Mon May 23 14:23:09 +03 2022
Mon May 23 14:23:10 +03 2022
Mon May 23 14:23:11 +03 2022
Mon May 23 14:23:12 +03 2022
Mon May 23 14:23:13 +03 2022
Mon May 23 14:23:14 +03 2022
Mon May 23 14:23:15 +03 2022
Mon May 23 14:23:16 +03 2022
Mon May 23 14:23:17 +03 2022
Mon May 23 14:23:18 +03 2022
Mon May 23 14:23:19 +03 2022
Mon May 23 14:23:20 +03 2022
Mon May 23 14:23:21 +03 2022
Mon May 23 14:23:22 +03 2022
Mon May 23 14:23:23 +03 2022
Mon May 23 14:23:24 +03 2022
Mon May 23 14:23:25 +03 2022
Mon May 23 14:23:26 +03 2022
Mon May 23 14:23:27 +03 2022
Mon May 23 14:23:28 +03 2022
Mon May 23 14:23:29 +03 2022
Mon May 23 14:23:30 +03 2022
Mon May 23 14:23:31 +03 2022
```

```
#####
##### WAIT #####
#####
```

A.0  
B.0  
A.1  
B.1  
A.2  
B.2  
A.3  
B.3  
B.4  
A.4  
C.0  
C.1  
C.2  
C.3  
C.4

# FIND BY DATE

```
#!/bin/bash
echo ""
echo "#####"
echo "##### FIND BY DATE #####"
echo "#####"
echo ""
```

```
date > /var/tmp/eclipse/file123
```

```
find /var/tmp/eclipse -mmin -10
```

```
# -10 -> son 10 dakika icinde degisen
# +10 -> 10 dakika oncesine git, u tarihten once desigenleri getir
#      Yani -10 olarak yazilan arama ile gelen sonuclarin tam tersini getirir.
# 10 -> degisme tarihi tam 10. dakikada olanlari getir.
```

```
#####
##### FIND BY DATE #####
#####
```

```
/var/tmp/eclipse/file123
```



# ARRAY MENU

```
#!/bin/bash
echo ""
echo "#####"
echo "##### ARRAY MENU #####"
echo "#####"
echo ""

echo "red green blue" > colors.txt
for i in $(cat colors.txt); do echo $i; done
color_array=($(cat colors.txt))
for((i=0;i<${#color_array[@]};i=i+1)); do echo "$i. ${color_array[$i]}"; done
read -p "Select a color (0-2) : " selection
echo "You selected ${color_array[$selection]}"
```

```
#####
##### ARRAY MENU #####
#####

red
green
blue
0. red
1. green
2. blue
Select a color (0-2) : 2
You selected blue
```

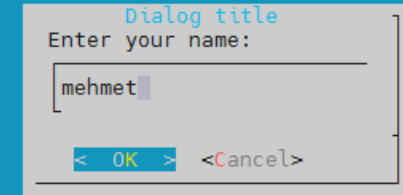
# DIALOG

```
#!/bin/bash
echo ""
echo "#####"
echo "##### DIALOG #####"
echo "#####"
echo ""

value1=$(dialog --stdout --title "Dialog title" --inputbox "Enter your name:" 0 0)
dialog --stdout --default-button "no" --no-label "I don't want to format" --yes-label "I want to format" --
yesno "Do you really want to format the partition?" 0 0
value2=$?
value3=$(dialog --stdout --checklist "Select items:" 0 0 0 \
  1 "Choice number one" off \
  2 "Choice number two" on \
  3 "Choice number three" off)
value4=$(dialog --stdout --radiolist "Select items:" 0 0 0 \
  1 "Choice number one" Off \
  2 "Choice number two" on \
  3 "Choice number three" off)
value5=$( dialog --stdout --insecure --passwordbox "Enter your password:" 0 0 )
echo ""
echo "#####"
echo ""
echo "value1=$value1"
echo "value2=$value2"
echo "value3=$value3"
echo "value4=$value4"
echo "value5=$value5"
```

#####

```
value1=mehmet
value2=1
value3=1 2
value4=3
value5=secret123
```



Do you really want to format the partition?

< I want to format > <I don't want to format>

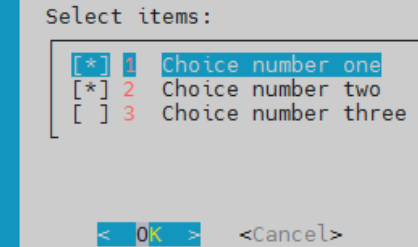
# DIALOG

```
#!/bin/bash
echo ""
echo "#####"
echo "##### DIALOG #####"
echo "#####"
echo ""

value1=$(dialog --stdout --title "Dialog title" --inputbox "Enter your name:" 0 0)
dialog --stdout --default-button "no" --no-label "I don't want to format" --yes-label "I want to format" --
yesno "Do you really want to format the partition?" 0 0
value2=$?
value3=$(dialog --stdout --checklist "Select items:" 0 0 0 \
  1 "Choice number one" off \
  2 "Choice number two" on \
  3 "Choice number three" off)
value4=$(dialog --stdout --radiolist "Select items:" 0 0 0 \
  1 "Choice number one" Off \
  2 "Choice number two" on \
  3 "Choice number three" off)
value5=$( dialog --stdout --insecure --passwordbox "Enter your password:" 0 0 )
echo ""
echo "#####"
echo ""
echo "value1=$value1"
echo "value2=$value2"
echo "value3=$value3"
echo "value4=$value4"
echo "value5=$value5"
```

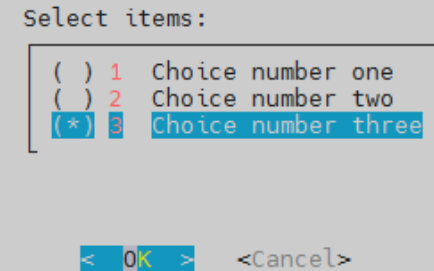
```
#####
```

```
value1=mehmet
value2=1
value3=1 2
value4=3
value5=secret123
```



```
Select items:
[*] 1 Choice number one
[*] 2 Choice number two
[ ] 3 Choice number three

< OK > <Cancel>
```



```
Select items:
( ) 1 Choice number one
( ) 2 Choice number two
(*) 3 Choice number three

< OK > <Cancel>
```

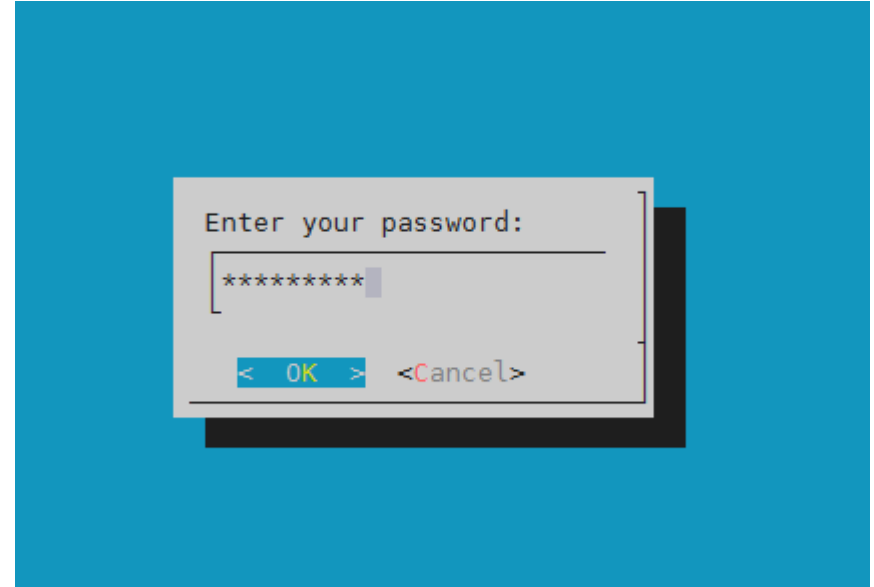
# DIALOG

```
#!/bin/bash
echo ""
echo "#####"
echo "##### DIALOG #####"
echo "#####"
echo ""

value1=$(dialog --stdout --title "Dialog title" --inputbox "Enter your name:" 0 0)
dialog --stdout --default-button "no" --no-label "I don't want to format" --yes-label "I want to format" --
yesno "Do you really want to format the partition?" 0 0
value2=$?
value3=$(dialog --stdout --checklist "Select items:" 0 0 0 \
  1 "Choice number one" off \
  2 "Choice number two" on \
  3 "Choice number three" off)
value4=$(dialog --stdout --radiolist "Select items:" 0 0 0 \
  1 "Choice number one" Off \
  2 "Choice number two" on \
  3 "Choice number three" off)
value5=$( dialog --stdout --insecure --passwordbox "Enter your password:" 0 0 )
echo ""
echo "#####"
echo ""
echo "value1=$value1"
echo "value2=$value2"
echo "value3=$value3"
echo "value4=$value4"
echo "value5=$value5"
```

#####

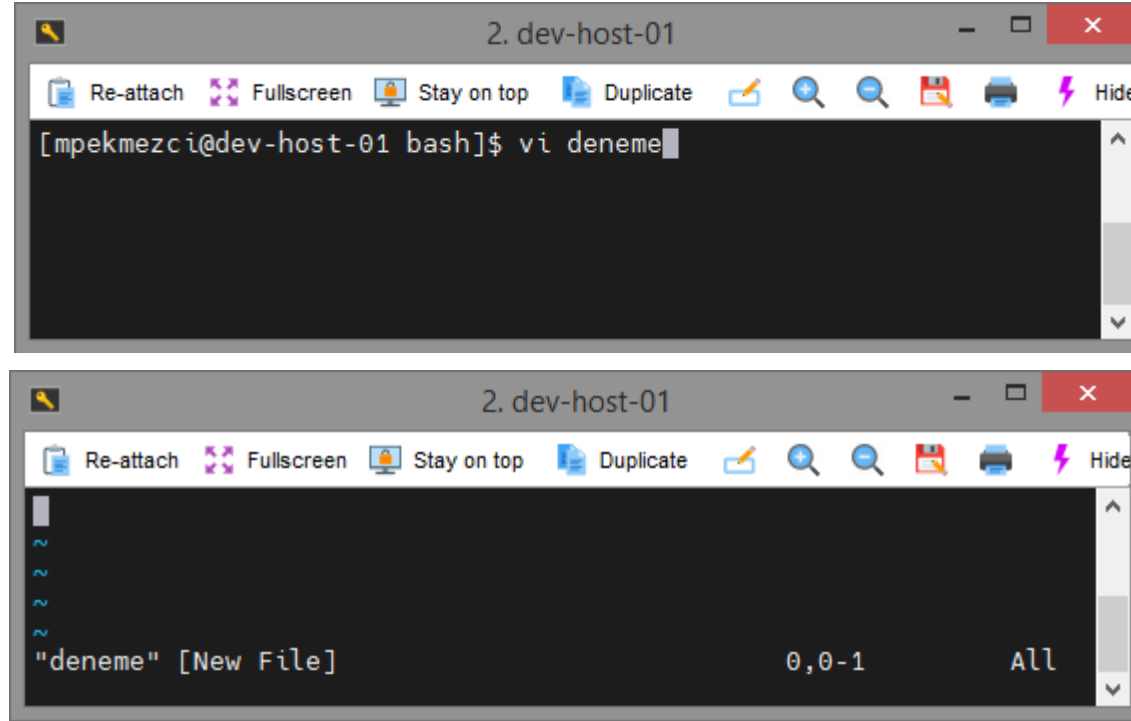
```
value1=mehmet
value2=1
value3=1 2
value4=3
value5=secret123
```



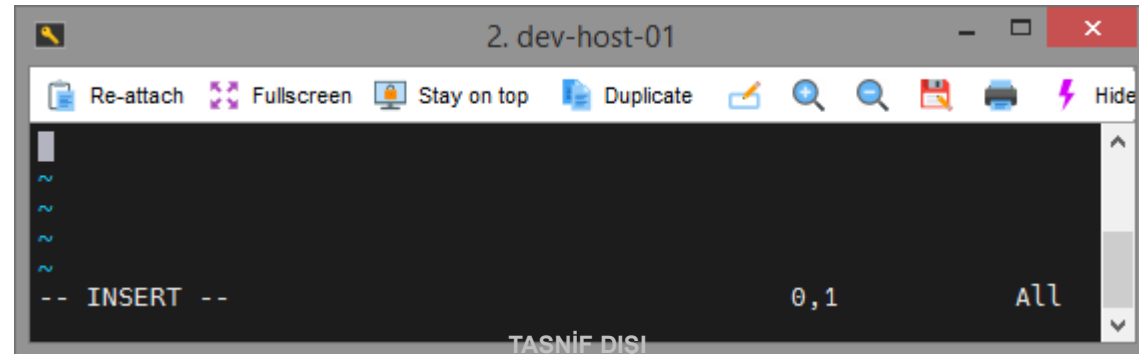
# EDITORS

Vi  
Mcedit

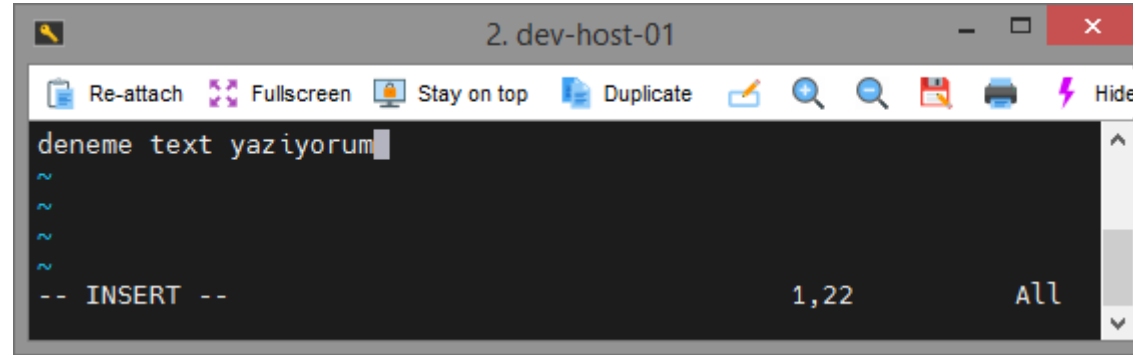
# VI



Klavyede **i** tuşuna basınca, aşağıdaki gibi "insert" moda geçiyoruz, artık yazabiliriz.



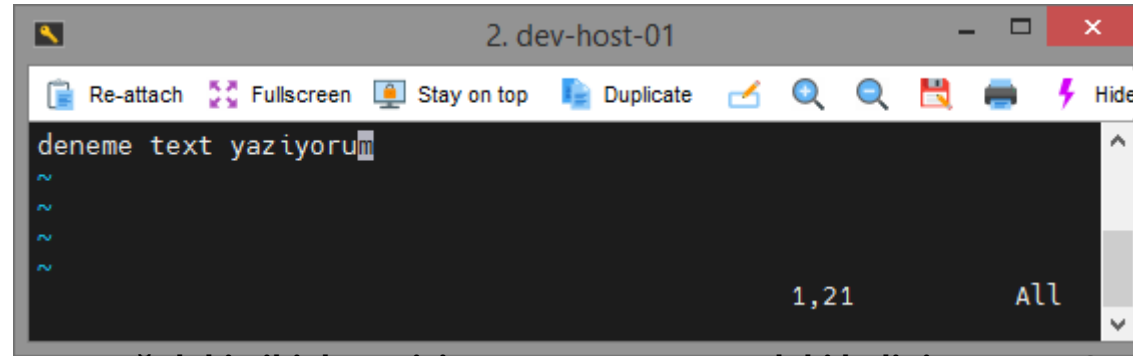
# VI



```
deneme text yaziyorum
```

-- INSERT -- 1,22 All


Klavede Esc tuşuna basınca, aşağıdaki gibi “Escape” moda geçiyoruz, artık yazamayız.



```
deneme text yaziyorum
```

1,21 All

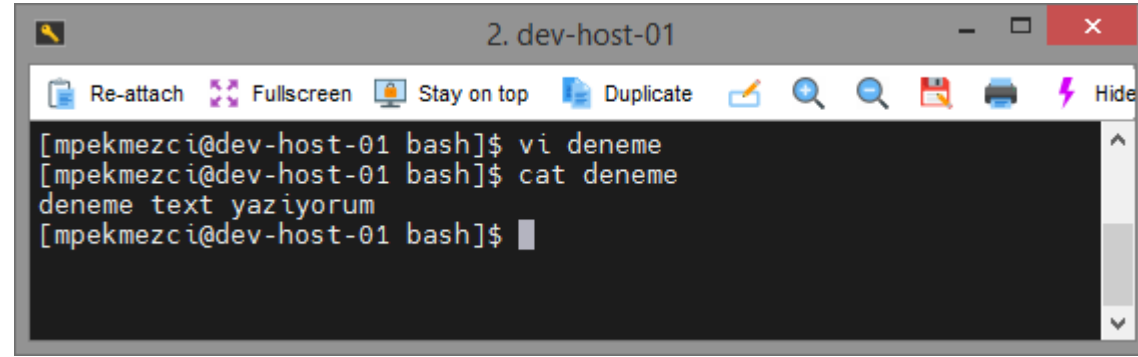
Klavede “:wq” yazınca, aşağıdaki gibi dosya içine mevcut memory’deki halini yazar. (NOT: “:” karakterini de bizim yazmamız gerekir, kendisi yazmaz.)



```
deneme text yaziyorum
```

:wq TASNİF DIŞI

# VI

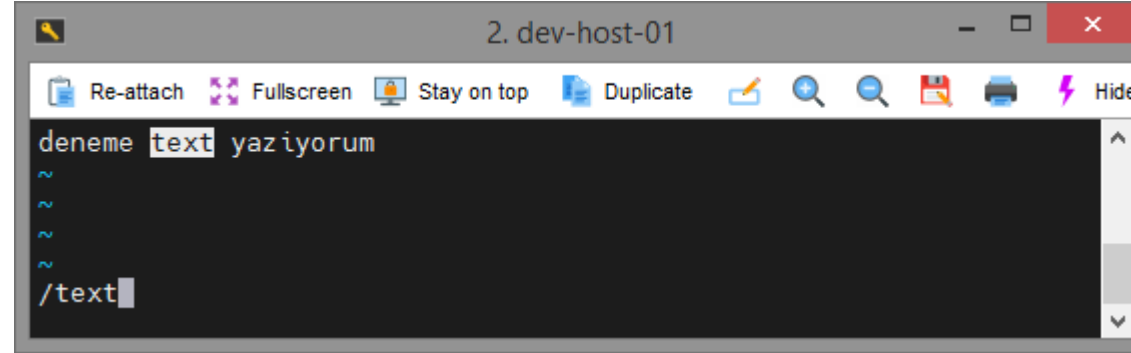


```
[mpekmezci@dev-host-01 bash]$ vi deneme
[mpekmezci@dev-host-01 bash]$ cat deneme
deneme text yaziyorum
[mpekmezci@dev-host-01 bash]$
```



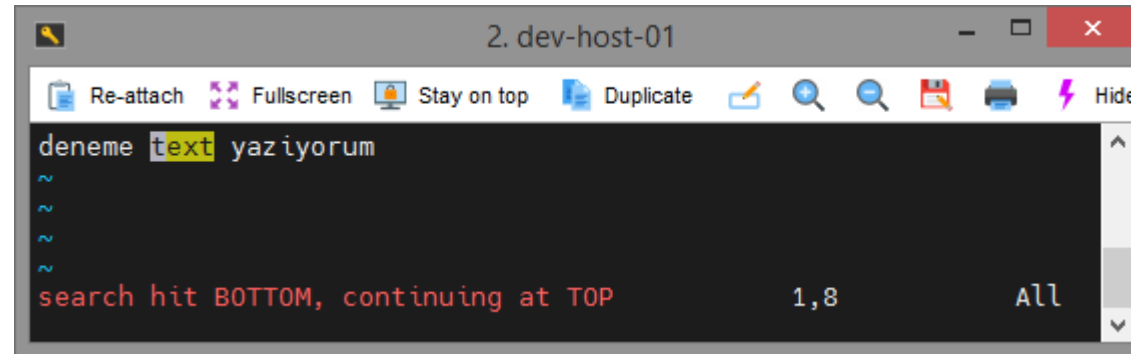
# VI - SEARCH

Klavede **Esc** tuşuna bastıktan sonra, **"/text"** yazısını yazarsak, **"text"** kelimesini arar.



A screenshot of a terminal window titled "2. dev-host-01". The window contains a text editor with the text "deneme text yaziyorum" on the first line. Below it, there are four lines of tilde (~) characters. At the bottom of the editor, the search command "/text" is entered. The terminal window has a toolbar at the top with icons for Re-attach, Fullscreen, Stay on top, Duplicate, and Hide.

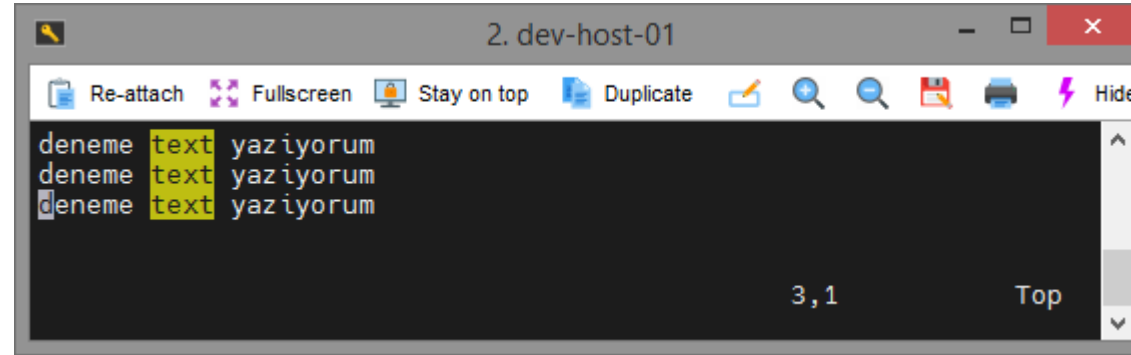
Klavede **"n"** tuşuna basarsak bir sonraki **"text"** yazısına gitmeye çalışır. ( **n**'nin anlamı next'tir)



A screenshot of a terminal window titled "2. dev-host-01". The window contains a text editor with the text "deneme text yaziyorum" on the first line. Below it, there are four lines of tilde (~) characters. At the bottom of the editor, the search command "/text" is entered. The terminal window has a toolbar at the top with icons for Re-attach, Fullscreen, Stay on top, Duplicate, and Hide. The search results are displayed at the bottom of the window: "search hit BOTTOM, continuing at TOP" in red text, "1,8" in white text, and "All" in white text.

# VI – COPY – PASTE - DELETE

Klavede Esc tuşuna bastıktan sonra, kalavyede “yy” yazarsak, bulunduğu satırı kopyalar.



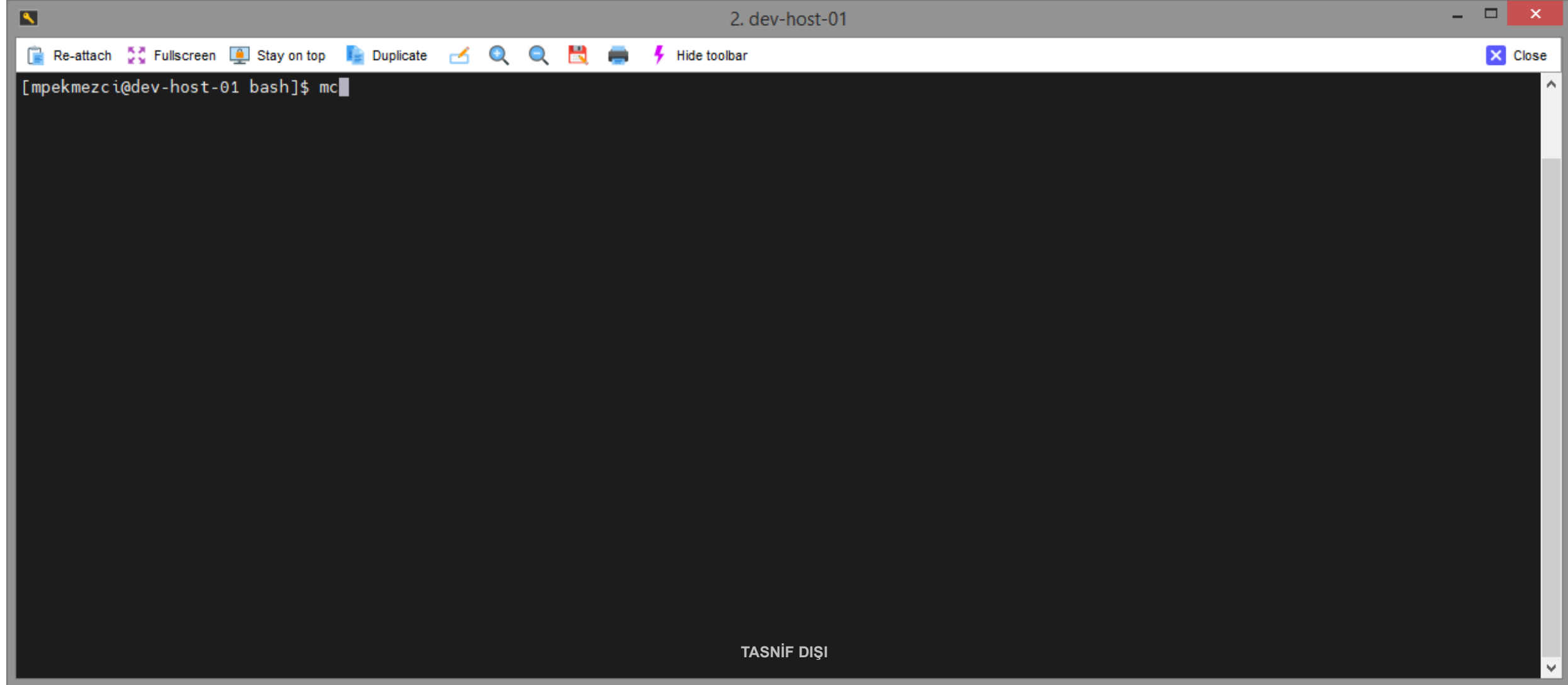
Klavede “p” tuşuna basarsak da ilgili satırı bir altına paste eder.

**Benzer komutlar :**

- Klavede “3yy” tuşuna basarsak , imlecin bulunduğu satır dahil 3 satırı kopyalar ve “p” ile bu 3 satırı paste eder.
- Klavede “dd” tuşuna basarsak , imlecin bulunduğu satırı siler.

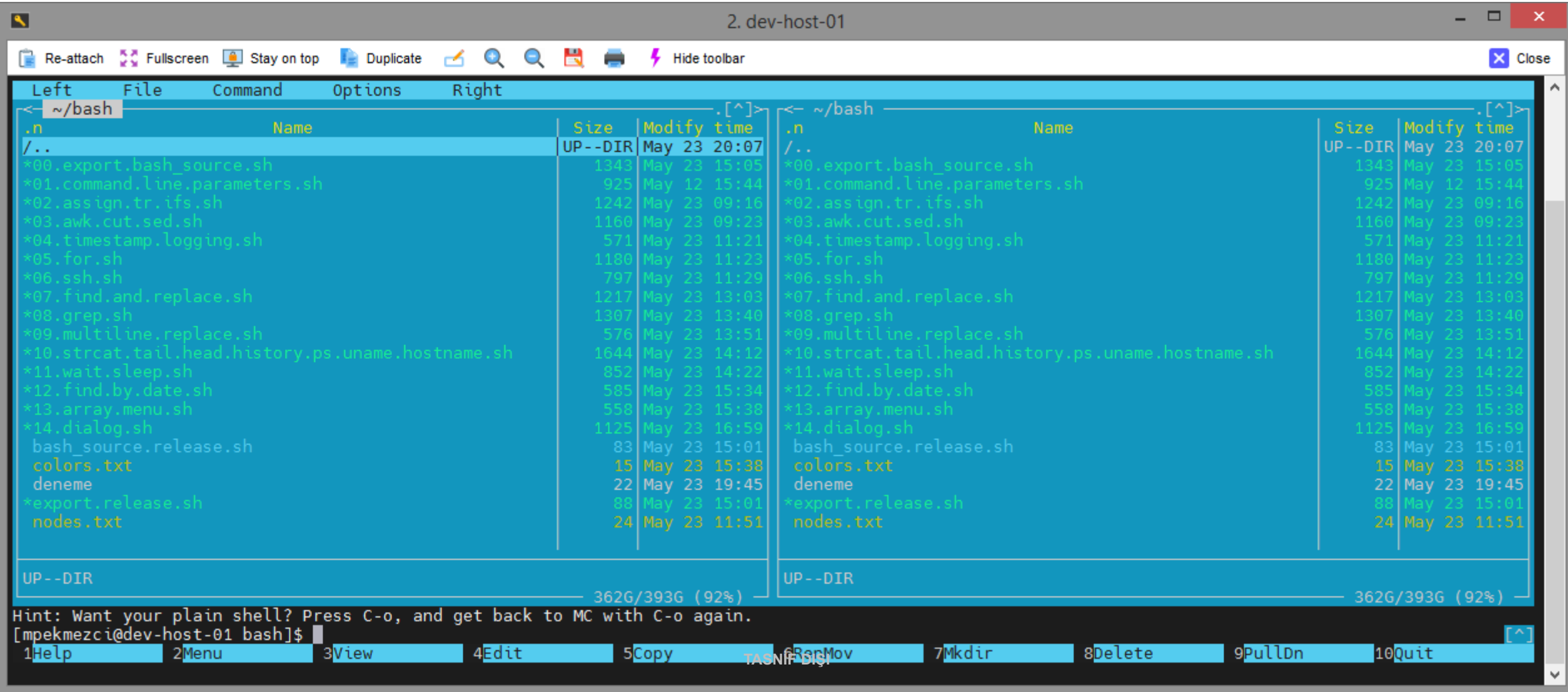
# MC

**mc (Midnight Commander) , komut satırında çalışan , dosyalar arasında gezinmeyi ve edit etmeyi çok kolaylaştıran bir uygulamadır.**



# MC

Program açılınca, aşağıdaki gibi sağ ve sol ekranlarında dosya ve dizinleri gezme imkanı vermektedir.



# MC

F9 tuşuna basınca yukarıdaki menüye geçilir.

2. dev-host-01

Re-attach Fullscreen Stay on top Duplicate Hide toolbar Close

Left File Command Options Right

.n	Name	Size	Modify	time
/..	UP--DIR		May 23	20:07
*00.export.bash_source.sh		1343	May 23	15:05
*01.command.line.parameters.sh		925	May 12	15:44
*02.assign.tr.ifs.sh		1242	May 23	09:16
*03.awk.cut.sed.sh		1160	May 23	09:23
*04.timestamp.logging.sh		571	May 23	11:21
*05.for.sh		1180	May 23	11:23
*06.ssh.sh		797	May 23	11:29
*07.find.and.replace.sh		1217	May 23	13:03
*08.grep.sh		1307	May 23	13:40
*09.multiline.replace.sh		576	May 23	13:51
*10.strcat.tail.head.history.ps.uname.hostname.sh		1644	May 23	14:12
*11.wait.sleep.sh		852	May 23	14:22
*12.find.by.date.sh		585	May 23	15:34
*13.array.menu.sh		558	May 23	15:38
*14.dialog.sh		1125	May 23	16:59
bash_source.release.sh		83	May 23	15:01
colors.txt		15	May 23	15:38
deneme		22	May 23	19:45
*export.release.sh		88	May 23	15:01
nodes.txt		24	May 23	11:51

UP--DIR 362G/393G (92%)

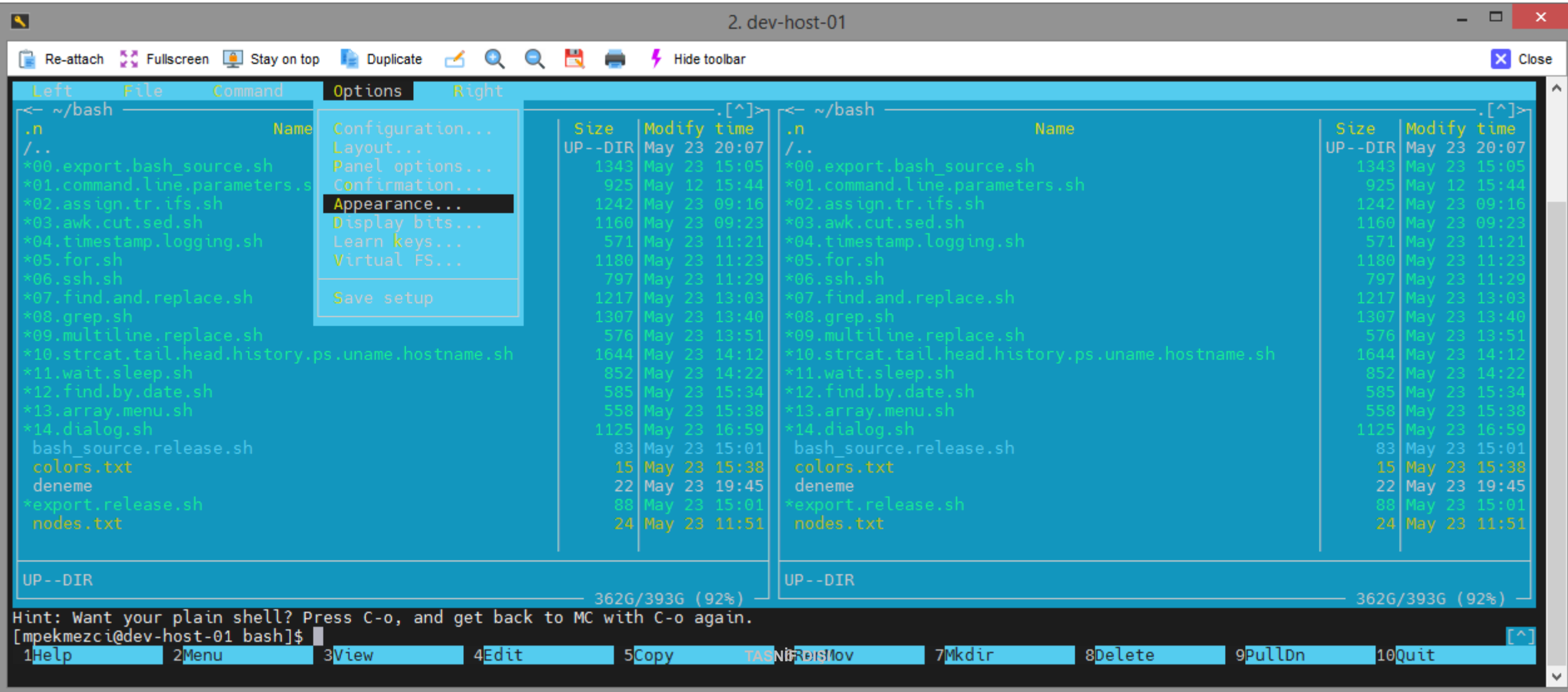
Hint: Want your plain shell? Press C-o, and get back to MC with C-o again.

[mpekmezci@dev-host-01 bash]\$

1Help 2Menu 3View 4Edit 5Copy 6RunMov 7Mkdir 8Delete 9PullDn 10Quit

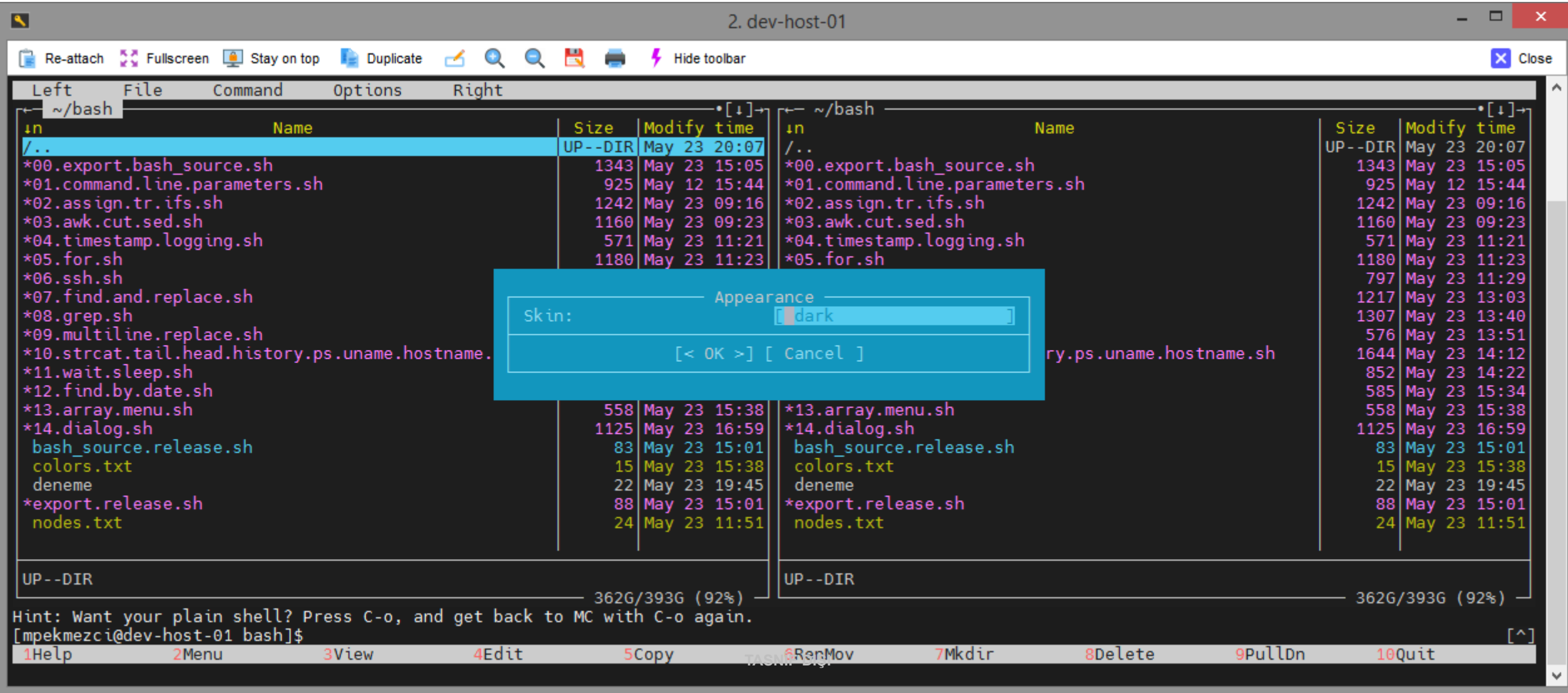
# MC

Ok tuşları ile options > Appearance 'a gidilip görünüş değiştirilir.



# MC

Seçim yapıldıktan sonra TAB ile "OK" butonun üstüne gelinir ve "Enter" tuşuna basılır.



# MC

## Layout menüsünde ekranın sağ/sol ayarları yapılır

The screenshot shows the MC (Minecraft) interface with the Layout menu open. The menu options are:

- Configuration...
- Layout...
- Panel options...
- Confirmation...
- Appearance...
- Display bits...
- Learn keys...
- Virtual FS...
- Save setup

The background shows a file manager with columns for Name, Size, Modify, and time. The interface is titled "2. dev-host-01" and includes a toolbar with icons for Re-attach, Fullscreen, Stay on top, Duplicate, and Hide toolbar.

Hint: Want your plain shell? Press C-o, and get back to MC with C-o again.

[mpekmezci@dev-host-01 bash]\$

1Help 2Menu 3View 4Edit 5Copy 6RenMov 7Mkdir 8Delete 9PullDn 10Quit



# MC

## Layout menüsünde ekranın sağ/sol ayarları yapılır

The screenshot shows the MC (Minecraft) interface with the Layout menu open. The menu is divided into three sections: Panel split, Console output, and Other options. The background shows a file manager view of a directory with various shell scripts.

**Layout Menu Options:**

- Panel split
  - (\*) Vertical
  - ( ) Horizontal
  - [ ] Equal split
  - 050 [ ] = [ > ] 102
- Console output
  - Output lines: [ + ] 00 [ - ]
- Other options
  - [ x ] Menubar visible
  - [ x ] Command prompt
  - [ x ] Keybar visible
  - [ x ] Hintbar visible
  - [ x ] XTerm window title
  - [ x ] Show free space

**File Manager View (Left Panel):**

Name	Size	Modify	time
UP--DIR		May 23	20:07
*00.export.bash_source.sh	1343	May 23	15:05
*01.command.line.parameters.sh	925	May 12	15:44
*02.assign.tr.ifs.sh	1242	May 23	09:16
*03.awk.cut.sed.sh	1160	May 23	09:23
*04.timestamp.logging.sh	571	May 23	11:21
*05.for.sh	1180	May 23	11:23
*06.ssh.sh	797	May 23	11:29
*07.find.and.replace.sh	1217	May 23	13:03
*08.grep.sh	1307	May 23	13:40
*09.multiline.replace.sh	576	May 23	13:51
*10.strcat.tail~.hostname.sh	1644	May 23	14:12
*11.wait.sleep.sh	852	May 23	14:22
*12.find.by.date.sh	585	May 23	15:34
*13.array.menu.sh	558	May 23	15:38
*14.dialog.sh	1125	May 23	16:59
bash_source.release.sh	83	May 23	15:01
colors.txt	15	May 23	15:38
deneme	22	May 23	19:45
*export.release.sh	88	May 23	15:01
nodes.txt	24	May 23	11:51

**File Manager View (Right Panel):**

Name	Size	Modify	time
UP--DIR		May 23	20:07
*00.export.bash_source.sh	1343	May 23	15:05
*01.command.line.parameters.sh	925	May 12	15:44
*02.assign.tr.ifs.sh	1242	May 23	09:16
*03.awk.cut.sed.sh	1160	May 23	09:23
*04.timestamp.logging.sh	571	May 23	11:21
*05.for.sh	1180	May 23	11:23
*06.ssh.sh	797	May 23	11:29
*07.find.and.replace.sh	1217	May 23	13:03
*08.grep.sh	1307	May 23	13:40
*09.multiline.replace.sh	576	May 23	13:51
*10.strcat.tail~.hostname.sh	1644	May 23	14:12
*11.wait.sleep.sh	852	May 23	14:22
*12.find.by.date.sh	585	May 23	15:34
*13.array.menu.sh	558	May 23	15:38
*14.dialog.sh	1125	May 23	16:59
bash_source.release.sh	83	May 23	15:01
colors.txt	15	May 23	15:38
deneme	22	May 23	19:45
*export.release.sh	88	May 23	15:01
nodes.txt	24	May 23	11:51

**Bottom Bar:**

Hint: Want your plain shell? Press C-o, and get back to MC with C-o again.  
[mpekmezci@dev-host-01 bash]\$

1Help 2Menu 3View 4Edit 5Copy 6Paste 7Mkdir 8Delete 9PullDn 10Quit

# MC

Yapılan ayarlar aşağıdaki gibi save edilir.

2. dev-host-01

Re-attach Fullscreen Stay on top Duplicate Hide toolbar Close

Left File Command Options Right

~ /bash

Configuration...  
Layout...  
Panel options...  
Confirmation...  
Appearance...  
Display bits...  
Learn keys...  
Virtual FS...  
Save setup

Name	Size	Modify time
UP -- DIR		May 23 20:07
*00.export.bash_source.sh	1343	May 23 15:05
*01.command.line.parameters.sh	925	May 12 15:44
*02.assign.tr.ifs.sh	1242	May 23 09:16
*03.awk.cut.sed.sh	1160	May 23 09:23
*04.timestamp.logging.sh	571	May 23 11:21
*05.for.sh	1180	May 23 11:23
*06.ssh.sh	797	May 23 11:29
*07.find.and.replace.sh	1217	May 23 13:03
*08.grep.sh	1307	May 23 13:40
*09.multiline.replace.sh	576	May 23 13:51
*10.strcat.tail.head.history.ps.uname.hostname.sh	1644	May 23 14:12
*11.wait.sleep.sh	852	May 23 14:22
*12.find.by.date.sh	585	May 23 15:34
*13.array.menu.sh	558	May 23 15:38
*14.dialog.sh	1125	May 23 16:59
bash_source.release.sh	83	May 23 15:01
colors.txt	15	May 23 15:38
deneme	22	May 23 19:45
*export.release.sh	88	May 23 15:01
nodes.txt	24	May 23 11:51

UP -- DIR 362G/393G (92%)

Hint: Want your plain shell? Press C-o, and get back to MC with C-o again.

[mpekmezci@dev-host-01 bash]\$

1Help 2Menu 3View 4Edit 5Copy 6RenMov 7Mkdir 8Delete 9PullDn 10Quit

# MC

F9 > Right > Quick View seçilerek, soldaki dosyanın içeriğinin sağda görünmesi sağlanır.

The screenshot shows the MobaXterm (MC) interface with the 'Right' pane open to the 'Quick View' menu. The 'Left' pane shows a file list with columns: Name, Size, Modif, and Options. The 'Right' pane shows a detailed view of the selected file, including its Name, Size, Modif, and time.

**Left Pane File List:**

Name	Size	Modif	Options
UP--DIR		May 2	
*00.export.bash_source.sh	1343	May 2	
*01.command.line.parameters.sh	925	May 1	
*02.assign.tr.ifs.sh	1242	May 2	
*03.awk.cut.sed.sh	1160	May 2	
*04.timestamp.logging.sh	571	May 2	
*05.for.sh	1180	May 2	
*06.ssh.sh	797	May 2	
*07.find.and.replace.sh	1217	May 2	
*08.grep.sh	1307	May 2	
*09.multiline.replace.sh	576	May 2	
*10.strcat.tail.hostname.sh	1644	May 2	
*11.wait.sleep.sh	852	May 2	
*12.find.by.date.sh	585	May 2	
*13.array.menu.sh	558	May 2	
*14.dialog.sh	1125	May 2	
bash_source.release.sh	83	May 23 15:01	
colors.txt	15	May 23 15:38	
deneme	22	May 23 19:45	
*export.release.sh	88	May 23 15:01	
nodes.txt	24	May 23 11:51	

**Right Pane Quick View:**

Name	Size	Modif	time
UP--DIR		May 23	20:07
source.sh	1343	May 23	15:05
.parameters.sh	925	May 12	15:44
s.sh	1242	May 23	09:16
sh	1160	May 23	09:23
gging.sh	571	May 23	11:21
1180	1180	May 23	11:23
797	797	May 23	11:29
lace.sh	1217	May 23	13:03
1307	1307	May 23	13:40
place.sh	576	May 23	13:51
head.history.ps.uname.hostname.sh	1644	May 23	14:12
h	852	May 23	14:22
.sh	585	May 23	15:34
h	558	May 23	15:38
1125	1125	May 23	16:59
83	83	May 23	15:01
15	15	May 23	15:38
22	22	May 23	19:45
88	88	May 23	15:01
24	24	May 23	11:51

**Bottom Bar:**

Hint: Tired of these messages? Turn them off from the Options/Layout menu.

[mpkmezci@dev-host-01 bash]\$

1Help 2Menu 3View 4Edit 5Copy 6RenMov 7Mkdir 8Delete 9PullDn 10Quit

TASNIF DIŞI

# MC

F9 > Right > Quick View seçilerek, soldaki dosyanın içeriğinin sağda görünmesi sağlanır.

2. dev-host-01

Re-attach Fullscreen Stay on top Duplicate Hide toolbar

Close

Left	File	Command	Options	Right
~ / bash				
in	Name	Size	Modif	Name
UP--DIR	UP--DIR	May 23 20:07		UP--DIR
*00.export.bash_source.sh	1343	May 23 15:05		source.sh
*01.command.line.parameters.sh	925	May 12 15:44		.parameters.sh
*02.assign.tr.ifs.sh	1242	May 23 09:16		s.sh
*03.awk.cut.sed.sh	1160	May 23 09:23		sh
*04.timestamp.logging.sh	571	May 23 11:21		gging.sh
*05.for.sh	1180	May 23 11:23		
*06.ssh.sh	797	May 23 11:29		
*07.find.and.replace.sh	1217	May 23 13:03		lace.sh
*08.grep.sh	1307	May 23 13:40		place.sh
*09.multiline.replace.sh	576	May 23 13:51		head.history.ps.uname.hostname.sh
*10.strcat.tail.hostname.sh	1644	May 23 14:12		h
*11.wait.sleep.sh	852	May 23 14:22		.sh
*12.find.by.date.sh	585	May 23 15:34		h
*13.array.menu.sh	558	May 23 15:38		
*14.dialog.sh	1125	May 23 16:59		
bash_source.release.sh	83	May 23 15:01		bash_source.release.sh
colors.txt	15	May 23 15:38		colors.txt
deneme	22	May 23 19:45		deneme
*export.release.sh	88	May 23 15:01		*export.release.sh
nodes.txt	24	May 23 11:51		nodes.txt
UP--DIR	UP--DIR			UP--DIR
362G/393G (92%)	362G/393G (92%)			362G/393G (92%)

Hint: Tired of these messages? Turn them off from the Options/Layout menu.

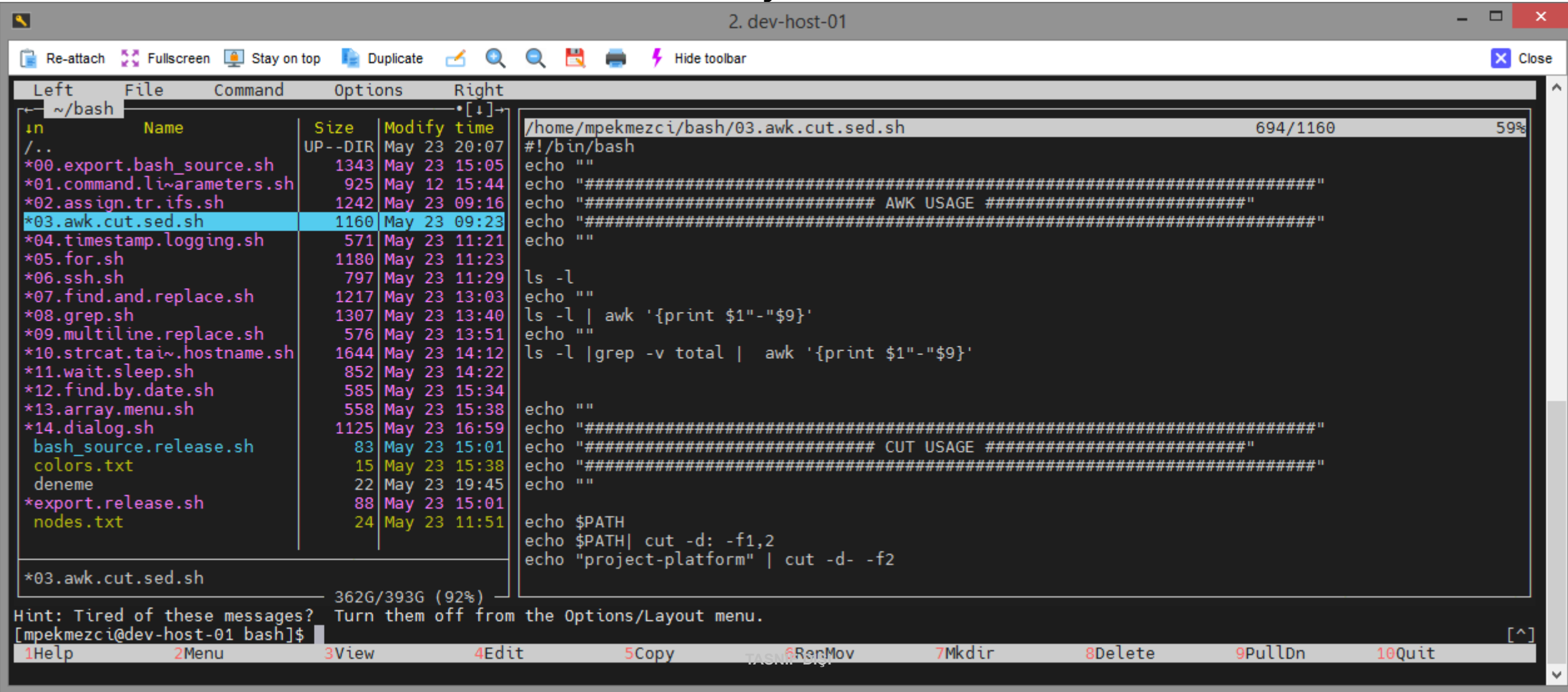
[mpekmezci@dev-host-01 bash]\$

1Help 2Menu 3View 4Edit 5Copy 6RenMov 7Mkdir 8Delete 9PullDn 10Quit

TASNİF DIŞI

# MC

Ok tuşları ile sağ menüdeki bir dosya seçilip “F4” tuşuna basınca edit moduna geçilir (VI’den daha kolaydır <sup>≡</sup> )



The screenshot shows the MC (Micro) editor interface. The top bar displays the window title "2. dev-host-01" and standard window controls. Below the top bar is a toolbar with icons for Re-attach, Fullscreen, Stay on top, Duplicate, and Hide toolbar. The main interface is divided into two panes. The left pane shows a file list with columns for Name, Size, and Modify time. The file \*03.awk.cut.sed.sh is selected. The right pane shows the content of the selected file, which is a shell script. The bottom status bar displays the current directory and file, and a hint message.

Left	File	Command	Options	Right
~ / bash				/home/mpekmezci/bash/03.awk.cut.sed.sh 694/1160 59%
in	Name	Size	Modify time	#!/bin/bash
./..		UP--DIR	May 23 20:07	echo ""
*00.export.bash_source.sh		1343	May 23 15:05	echo "#####"
*01.command.line.parameters.sh		925	May 12 15:44	echo "##### AWK USAGE #####"
*02.assign.tr.ifs.sh		1242	May 23 09:16	echo "#####"
*03.awk.cut.sed.sh		1160	May 23 09:23	echo ""
*04.timestamp.logging.sh		571	May 23 11:21	ls -l
*05.for.sh		1180	May 23 11:23	echo ""
*06.ssh.sh		797	May 23 11:29	ls -l   awk '{print \$1-"\$9}'
*07.find.and.replace.sh		1217	May 23 13:03	echo ""
*08.grep.sh		1307	May 23 13:40	ls -l   grep -v total   awk '{print \$1-"\$9}'
*09.multiline.replace.sh		576	May 23 13:51	echo ""
*10.strcat.tail.hostname.sh		1644	May 23 14:12	echo "#####"
*11.wait.sleep.sh		852	May 23 14:22	echo "##### CUT USAGE #####"
*12.find.by.date.sh		585	May 23 15:34	echo "#####"
*13.array.menu.sh		558	May 23 15:38	echo ""
*14.dialog.sh		1125	May 23 16:59	echo \$PATH
bash_source.release.sh		83	May 23 15:01	echo \$PATH   cut -d: -f1,2
colors.txt		15	May 23 15:38	echo "project-platform"   cut -d- -f2
deneme		22	May 23 19:45	
*export.release.sh		88	May 23 15:01	
nodes.txt		24	May 23 11:51	
*03.awk.cut.sed.sh				

Hint: Tired of these messages? Turn them off from the Options/Layout menu.

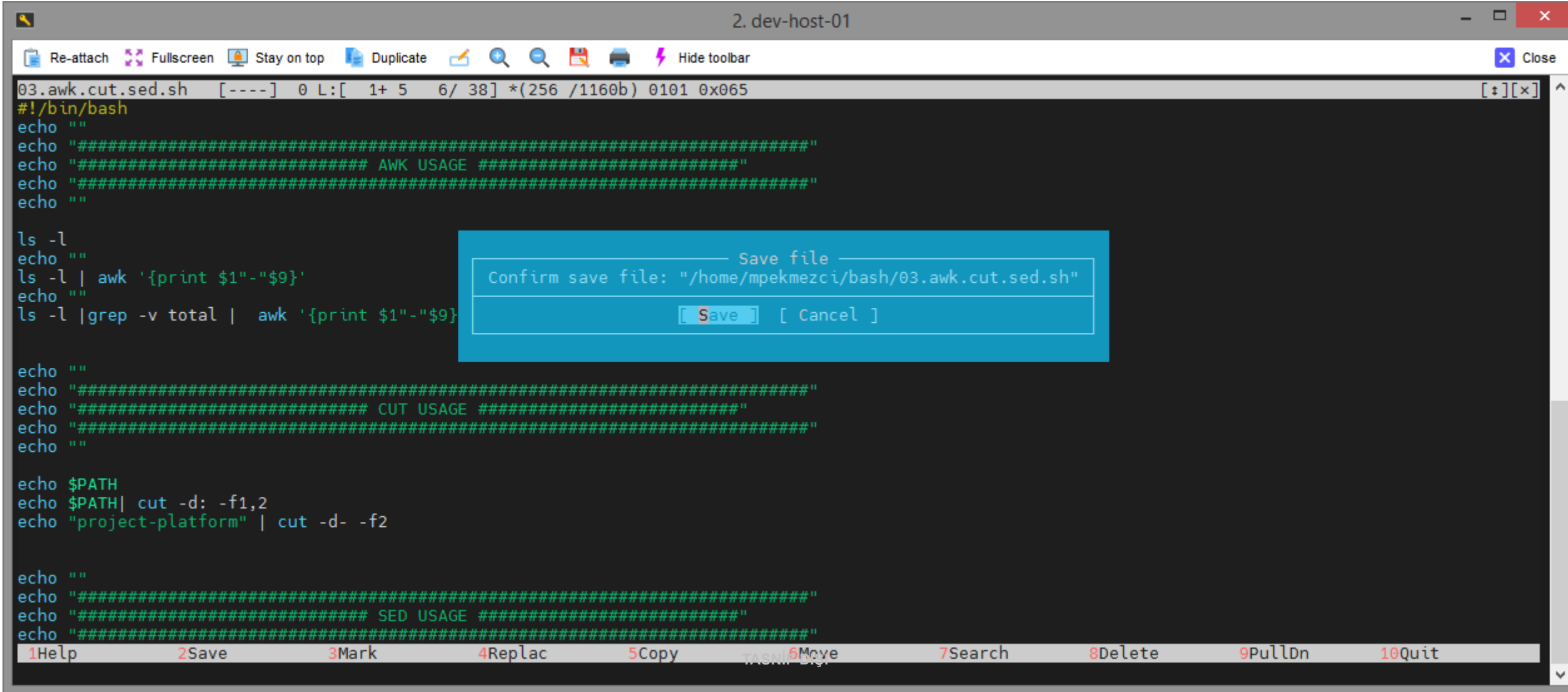
[mpekmezci@dev-host-01 bash]\$

1Help 2Menu 3View 4Edit 5Copy 6RenMov 7Mkdir 8Delete 9PullDn 10Quit



# MC

Dosyada düzenlememizi yaptıktan sonra “F2” tuşu ile save ederiz, “F10” tuşu ile bir önceki slayttaki ekrana döneriz.



The screenshot shows a terminal window titled "2. dev-host-01" with a toolbar at the top containing icons for Re-attach, Fullscreen, Stay on top, Duplicate, and Hide toolbar. The terminal content is as follows:

```
03.awk.cut.sed.sh [----] 0 L:[ 1+ 5 6/ 38] *(256 /1160b) 0101 0x065
#!/bin/bash
echo ""
echo "#####"
echo "##### AWK USAGE #####"
echo "#####"
echo ""

ls -l
echo ""
ls -l | awk '{print $1-"$9}'
echo ""
ls -l |grep -v total | awk '{print $1-"$9}'

echo ""
echo "#####"
echo "##### CUT USAGE #####"
echo "#####"
echo ""

echo $PATH
echo $PATH| cut -d: -f1,2
echo "project-platform" | cut -d- -f2

echo ""
echo "#####"
echo "##### SED USAGE #####"
echo "#####"
```

A blue dialog box is overlaid on the terminal, titled "Save file", with the text "Confirm save file: "/home/mpekmezci/bash/03.awk.cut.sed.sh". It has two buttons: "Save" and "Cancel".

At the bottom of the terminal window, there is a status bar with the following text: 1Help 2Save 3Mark 4Replac 5Copy 6Move 7Search 8Delete 9PullDn 10Quit.