

<https://github.com/NourSharaky/Command-Line-Basics-Tutorial/tree/main>

KH4062CEM Skills Development 1 – Lab2

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Command line cheat sheet:

Ctrl + shift + T	open terminal
Ctrl + Tab	Navigate between terminal tabs
Ctrl + shift + W	Close terminal
Ctrl + L / clear	Clear terminal
Cd	Change directory
Cd ..	Move back one directory
Cd ~	Move to home directory
echo	Output a specific message
ls / ls -l	List files in directory
ls -la / la -a	List files in directory including the hidden ones
ls -F	List files and their types in directory
ls -lt	List files sorted by last modified time in directory
ls -lh	List files in readable format in directory
ls -lR	Shows all subdirectories
touch	Create a file
rm -i	Remove a file
mkdir	Create directory/folders
rmdir	Remove directory
pwd	Print current directory
cat	Print file contents
head	Print first 10 lines of a file
tail	Print last 10 lines of a file
diff	Check difference between 2 files
cp -p	Copy a file
mv	Move a file
op	Open a file
nano	Edit a file
locate	Returns file path
man	Help show available commands
sudo	Change to admin to run elevated commands
apt	Advanced Packaging Tool

Apt-get install	Install software packages
apt-get update	Update list of available packages
apt-get upgrade	Install the newest version of available packages
apt-cache pkgnames	List all available packages
hostname	Display hostname of the system
whoami	Display username of the users logged in at the terminal
who	Display list of all the users currently logged in
passwd	Change current user's password
uptime	Display the time for which the system has been up

Part 1 – getting started with Kali Linux:

```
kali@kali: ~/SkillsDevelopment1/Lab2
File Actions Edit View Help
(kali@kali)-[~]
$ mkdir SkillsDevelopment1
(kali@kali)-[~]
$ cd SkillsDevelopment1
(kali@kali)-[~/SkillsDevelopment1]
$ mkdir Lab2
(kali@kali)-[~/SkillsDevelopment1]
$ cd Lab2
(kali@kali)-[~/SkillsDevelopment1/Lab2]
$ touch myfile.py
(kali@kali)-[~/SkillsDevelopment1/Lab2]
$ ls
myfile.py
(kali@kali)-[~/SkillsDevelopment1/Lab2]
$ mv myfile.py HelloWorld.py
(kali@kali)-[~/SkillsDevelopment1/Lab2]
$ ls
HelloWorld.py
(kali@kali)-[~/SkillsDevelopment1/Lab2]
$ touch program.py
(kali@kali)-[~/SkillsDevelopment1/Lab2]
$ nano program.py
(kali@kali)-[~/SkillsDevelopment1/Lab2]
$ nano program.py
(kali@kali)-[~/SkillsDevelopment1/Lab2]
$ python3 program.py
enter a number:5
*
**
***
****
*****
(kali@kali)-[~/SkillsDevelopment1/Lab2]
$ python3 program.py
enter a number:3
*
**
***
(kali@kali)-[~/SkillsDevelopment1/Lab2]
```

python code:

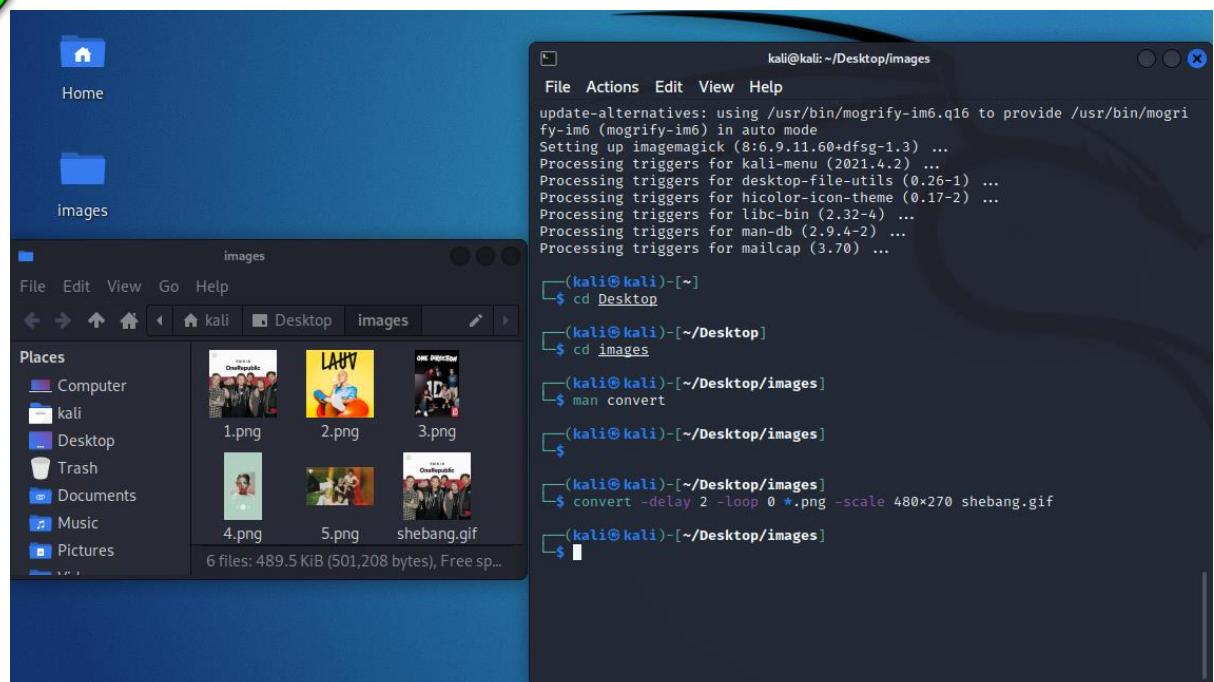
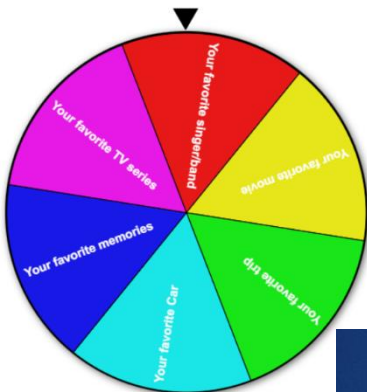
```
kali@kali: ~/SkillsDevelopment1/Lab2
File Actions Edit View Help
GNU nano 5.9 program.py *
x=int(input("enter a number:"))
for i in range(0,x):
    print("*"*(i+1))
```

Part 2 – what is the command:

1. Command used to copy file: cp
2. Command used to delete files: rm & Command used to delete directories: rmdir
3. Command used to rename files: rename or mv
4. Command used to display contents of a file: cat
5. Command to clear terminal: clear

Part 3 – generate a gif from cmd:

Your favorite singer/band



Part 4 – install fortune:

Want to read a quote? Maybe something funny, or perhaps an educational message? Fortune is a program that displays a pseudorandom message from a database of quotations.

```
kali@kali: ~/Desktop/images
File Actions Edit View Help

(kali@kali)-[~/Desktop/images]
└─$ sudo apt-get install fortune
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Note, selecting 'fortune-mod' instead of 'fortune'
The following additional packages will be installed:
  fortunes-min librecode0
Suggested packages:
  fortunes bsdmainutils
The following NEW packages will be installed:
  fortune-mod fortunes-min librecode0
0 upgraded, 3 newly installed, 0 to remove and 375 not upgraded.
Need to get 648 kB of archives.
After this operation, 2,154 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://kali.download/kali kali-rolling/main amd64 librecode0 amd64 3.6-24 [531 kB]
Get:2 http://kali.download/kali kali-rolling/main amd64 fortune-mod amd64 1:1.99.1-7.1 [49.3 kB]
Get:3 http://kali.download/kali kali-rolling/main amd64 fortunes-min all 1:1.99.1-7.1 [67.9 kB]
Fetched 648 kB in 1s (511 kB/s)
Selecting previously unselected package librecode0:amd64.
(Reading database ... 268500 files and directories currently installed.)
Preparing to unpack .../librecode0_3.6-24_amd64.deb ...
Unpacking librecode0:amd64 (3.6-24) ...
Selecting previously unselected package fortune-mod.
Preparing to unpack .../fortune-mod_1%3a1.99.1-7.1_amd64.deb ...
Unpacking fortune-mod (1:1.99.1-7.1) ...
Selecting previously unselected package fortunes-min.
Preparing to unpack .../fortunes-min_1%3a1.99.1-7.1_all.deb ...
Unpacking fortunes-min (1:1.99.1-7.1) ...
Setting up librecode0:amd64 (3.6-24) ...
Setting up fortunes-min (1:1.99.1-7.1) ...
Setting up fortune-mod (1:1.99.1-7.1) ...
Processing triggers for libc-bin (2.32-4) ...
Processing triggers for man-db (2.9.4-2) ...
Processing triggers for kali-menu (2021.4.2) ...

(kali@kali)-[~/Desktop/images]
└─$ fortune
An honest tale speeds best being plainly told.
    -- William Shakespeare, "Henry VI"
```


Part 5 – Install GIMP:

GIMP is a free and open-source raster graphics editor used for image manipulation and image editing, free-form drawing, transcoding between different image file formats, and more specialized tasks

```
kali@kali: ~/Desktop/images
File Actions Edit View Help
(kali@kali)-[~/Desktop/images]
$ sudo apt-get update
Get:1 http://kali.download/kali kali-rolling InRelease [30.6 kB]
Get:2 http://kali.download/kali kali-rolling/main amd64 Packages [18.0 MB]
Get:3 http://kali.download/kali kali-rolling/main amd64 Contents (deb) [40.6 MB]
Get:4 http://kali.download/kali kali-rolling/contrib amd64 Packages [115 kB]
Get:5 http://kali.download/kali kali-rolling/contrib amd64 Contents (deb) [15 5 kB]
Get:6 http://kali.download/kali kali-rolling/non-free amd64 Packages [212 kB]
Get:7 http://kali.download/kali kali-rolling/non-free amd64 Contents (deb) [9 90 kB]
Fetched 60.1 MB in 1min 8s (882 kB/s)
Reading package lists... Done

(kali@kali)-[~/Desktop/images]
$ sudo apt -y install gimp
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  gimp-data libamd2 libbabl-0.1-0 libc-bin libc-dev-bin libc-l10n libc6
  libc6-dev libc6-i386 libcamd2 libccolamd2 libcholmod3 libcolamd2
  libgegl-0.4-0 libgegl-common libgexiv2-2 libgimp2.0 libmetis5 libmng1
  libmypaint-1.5-1 libmypaint-common libraw20 libsuitesparseconfig5
  libumfpack5 locales
Suggested packages:
  gimp-help-en | gimp-help gimp-data-extras glibc-doc libnss-nis
  libnss-nisplus manpages-dev
Recommended packages:
  manpages-dev libc-devtools
The following NEW packages will be installed:
  gimp gimp-data libamd2 libbabl-0.1-0 libcamd2 libccolamd2 libcholmod3
  libcolamd2 libgegl-0.4-0 libgegl-common libgexiv2-2 libgimp2.0 libmetis5
  libmng1 libmypaint-1.5-1 libmypaint-common libraw20 libsuitesparseconfig5
  libumfpack5
The following packages will be upgraded:
  libc-bin libc-dev-bin libc-l10n libc6 libc6-dev libc6-i386 locales
7 upgraded, 19 newly installed, 0 to remove and 834 not upgraded.
Need to get 36.0 MB/37.2 MB of archives.
After this operation, 130 MB of additional disk space will be used.
Get:1 http://kali.download/kali kali-rolling/main amd64 libc-l10n all 2.33-1 [863 kB]
Get:2 http://kali.download/kali kali-rolling/main amd64 libc-dev-bin amd64 2.33-1 [242 kB]
Get:3 http://kali.download/kali kali-rolling/main amd64 libc6-dev amd64 2.33-1 [2,272 kB]
Get:4 http://kali.download/kali kali-rolling/main amd64 libc6-i386 amd64 2.33-1 [2,636 kB]
Get:5 http://kali.download/kali kali-rolling/main amd64 locales all 2.33-1 [4,087 kB]
Get:6 http://kali.download/kali kali-rolling/main amd64 libc6 amd64 2.33-1 [2
```

