

KH4062CEM Skills Development 1 – Lab2

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Command line cheat sheet:

Ctrl + shift + T	open terminal
Cd	Change directory
Cd ..	Move back one directory
echo	Output a specific message
ls	List files in directory
ls -la	List files in directory including the hidden ones
touch	Create a file
rm	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	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
Apt-get	Install software packages

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:

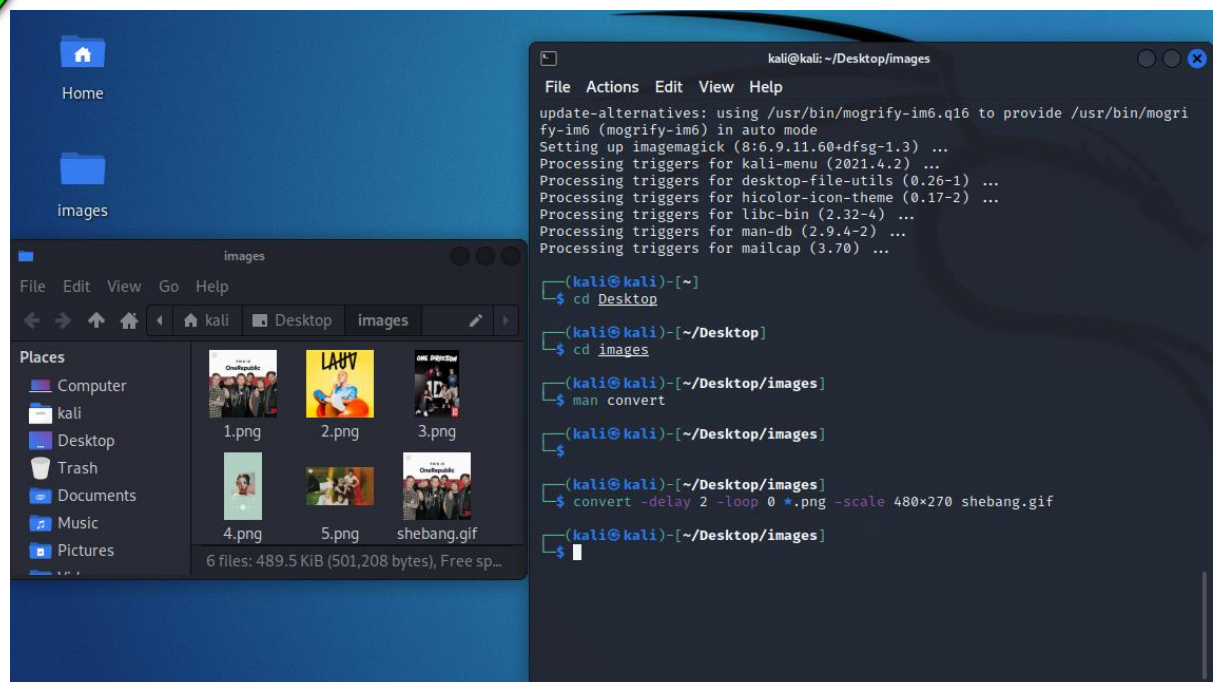
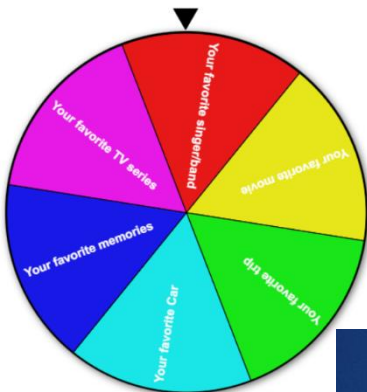
```
kali@kali: ~/SkillsDevelopment1/Lab2
File Actions Edit View Help
GNU nano 5.9 program.py *
x=int(input("enter a number:"))
for i in range(0,x):
    print("*"*(i+1))
```

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
```

