**Exercise of Ch 1 :-**

**1-when run (ls) appeared contents of my directory and when run cd that changes my directory to another and (Pwd) appeared when I’m currently.**

**2-whoami appeared the name of user command.**

**3-locate appeared the location of my file.**

**4-use cat to create a new file then typing anything in the file and when we quit ,use (ctrl-d ) and to append to file we use double redirect (>>)**

**(cat > file name) (cat >> file name).**

**5- to create directory we use (mkdir + directory name)**

**To create file use touch+ file name and when copy use (cp) and rename with (rm file name ).**

**( kali > mkdir backerdirectory .**

**Kali> touch backedfile**

**Kali> cp**

**Kali> rm backedfile omnia)**

**Exercise of Ch 2 :-**

**2-to show the contents of file using cat ,/etc :-ex(cat /etc / password list )**

**3-more use to show page from file at a time and you can scroll in page**

**(more /etc / password list).**

**4-nl use to show line number for example(nl /etc / password list).**

**And specified lines with dash (-) then the number.**

**5-use tail to show the last lines of the file ex(tail -20 /etc /password list)**

**6-and to find or replace use sed ex(sed s123/123g )**

**Exercise of Ch 3 :-**

1. **Ifconfig use to active network interfaces , check network connections .**
2. **To change Ip address use ifconfig for example (ifconfig eth0 192.168.181.115).**
3. **To check wireless address use (iwconfig)**
4. **Assigning new Ip address from the DHCP server with(dhclient eth0 )**
5. **To find nameserver and email server with dig**

**(dig hackers-arise .com ns)**

**(dig hackers-arise .com mx)**

**Exercise of Ch 4 :-**

**1-to install software package use (apt-get)**

**2-to remove use (apt-get remove).**

**3-to update repository use (leafpad /etc/apt/source.list)**

**4- to upgrading (apt-get upgrading).**

**6-Use git.**

**Exercise of Ch 5 :-**

**2/1-use (cd /usr/bin)**

**Then(chemo 777 filename)then (chemo u-w filename)**

**(find / -usr root -perm -4000) and so changing permission**

**3- to change owner ship using (chown username /tmp )**

**4-(find / -usr root -perm -4000).**

**Exercise of Ch 6:-**

**Viewing process to manage it use(ps)**

**And to view all processes for all users (ps aux)**

**First process is(/sbin/inity/spla) and last(ps aux ).**

**2-** **we want to know which processes are using the most resources.**

**We use top command .**

**3-to kill process use(kill) when process consume with many resources.**

**If you don’t know a process PID use (killall -g zombie process )**

**5-to scheduling process use (at 1:00 am)then (at> root /my scanning script).**

**Exercise of Ch 7:-**

**1-to view all processes use(env) and use more to variable we use**

**(set | more) to view each variable line by line**

**2-this way you can always undo your changes**

**And making variable value changes use (H OS T NA M =0)**

**Then (echo $H OS T NA M > ~/value of H OS T NA M size.txt)**

**3-create variable with (ps1=”MYN EWV ARI AB LE :~$”)**

**6-( export MYNE W VAR IABL)**

**Exercise of Ch 8:-**

**To create script of hello hacker-arise use(#! /bin /bash)**

**Enter echo to running hello hacker-arise .**

**To adding functionality with variables and user input**

**(/MYSQL scanner.sh)**

**Nmap is used to probe a system to see whether it is connected to the network and finds out what ports are open.**

**Nmap <type of scan><target IP><optionally , target port>**

**Exercise of Ch 9:-**

**After creating three file (new,new2,new3) we compress it**

**To compressing files combine them int archive use tar command**

**(> tar -cvf L4H.tar new new2 new3)**

**(ls -l)**

**(>tar -xvf L4H.tar)**

**To compressing files ,we use gzip**

**( > gzip L4H.\*)**

**And to uncompressing ,we use un compress use**

**(> un compress L4H.\*)**

**And to copy use (dd if = /dev /sdb of= /root/flashcopy).**

**Exercise of Ch 10:-**

**To mounting storage devices yourself :to mount drive on the file system use mount command (> mount /dev /sdb1 /mnt)**

**To u mounting use(>u mount /dev /sdb1)**

**To check the mount use df command**

**To check errors use fsck command**

**And -p option repairs this error and any problems with the device.**

**(>fsck -p /dev/sdb1)**

**To show some basic information about each block device use**

**(>lsblk)**

**Exercise of Ch 11:-**

**when we all search for all files related to rsyslog**

**(> locate rsyslog)**

**Rsyslog configuration file :-**

**(> leafpad /etc /rsyslog.conf )**

**Removing evidence use (shred - -help )**

**(shred -f -n 10 /var /log /auth.log)**

**To disabling logging ,to stop the logging daemon**

**(> service rsyslog).**

**Exercise of Ch 12:-**

**To start apache 2 service (>service apache 2 start)**

**To stop use (>service apache 2 stop)**

**Editing the index.html (<html><body>…………………</body></html>)**

**To open SSH (>service SSH start )**

**To starting MYSQL use(>service MYSQL start)**

**To access mysql database on the local host (> MYSQL -u <username>-p).**

**Connecting to database (MYSQL> show tables ;)**

**(MYSQL> select \* from card numbers ;) .**

**Postgres SQL with Metasploit**

**(>apt-get Postgres install).**

**And to start it use ( > service Postgres sql start).**

**Exercise of Ch 13:-**

**To see what hops a packet might make between you and destination .**

**(> traceroute google.com).**

**Proxy is intermediate systems that act as middlemen for traffic the user connects to proxy**

**(> proxychains <the command you want proxies ><argument>)**

**To scan a site (proxychains nmap -ST -pn <IP address>).**

**(>leafpad /etc / proxychains .conf )**

**To running (>proxychains firefox** [**www . hackers**](http://www.hackers)**\_arise.com)**

**VPN is used to connect to an intermediary internet device.**

**Exercise of Ch 14:-**

**Ifconfig is from basic wireless commands (>ifconfig)**

**To see only wireless interfaces use iwconfig.(>iwconfig).**

**You can see all the wireless access points your network card can reach use iwlist.(> iwlist wlan0 scan).**

**Another command to manage Wi-Fi use(nmcli)**

**Used to view the Wi-Fi . Aps (>nmcli dev wifi )**

**(> nmcli dev wifi connect hackers-arise password 12345678).**

**Bluetooth scanning (>apt-get install bluez)**

**To manage and scan Bluetooth devices (> hciconfig)**

**Exercise of Ch 15:-**

**To checking the kernel version use .**

**(>uname -a).**

**To get this information (> cat /proc/version)**

**Managing kernel modules (lsmod)**

**Finding more information with mod info (> modinfo Bluetooth)**

**Adding and removing use**

**(> modprobe -a <module name>)**

**(>modprbe -r <module to be remove>).**

**Exercise of Ch 16:-**

**كفايه كدا عشان الوقت خلص نااسف علي الازعاج وبالتوفيق لينا جميعا وحقيقي الواحد تعب عشان يوصل لل الشابتر دا وربنا يستر ☹**