Script FILE PERMISSIONS:

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SET USER_ID >> /4000

SET GROUP_ID >> /2000

SET USER_ID and SET GROUP_ID >> /6000

SET Sticky Bit >> /1000

- To run script file:

sh file.sh

Or

. /file.sh

- Man find >> for search word (type): /type

UMASK PERMISSIONS:

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FOLDERS >> 777

Files >> 666

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1-Run Script less than 10 mib /usr/local/bin/newsearch1 and set group id list save output files under /root/systemfiles

Solution:

#vim /usr/local/bin/newsearch1.sh

```
#!/bin/bash
find /usr -type f -size -10M -perm /2000 > /root/system-files
:wq
```

#chmod 777 /usr/local/bin/newsearch1.sh

#sh /usr/local/bin/newsearch1.sh

==========

2-Run Script less than 10 mib and more than 5 mib /usr/local/bin/newsearch2 and set user id list save output files under /root/systemfiles

Solution:

#vim /usr/local/bin/newsearch2.sh

```
#!/bin/bash
find /usr -type f -size +5M -size -10M -perm /4000 > /root/system-files
:wq
```

#chmod 777 /usr/local/bin/newsearch2.sh

#sh /usr/local/bin/newsearch2.sh

==========

3-Run Script less than 10 kib script1 and set group id list save output files under /root/systemfiles

Solution:

#vim script1.sh

```
#!/bin/bash
find /usr -type f -size -10k -perm /2000 > /root/system-files
:wq
```

#chmod 777 script1.sh

#sh script1.sh

==========

4-Run Script less than 50 mib and more than 30 mib /usr/local/bin/script2 , set user id and copy files under /dir2

Solution:

#vim /usr/local/bin/script2.sh

```
#!/bin/bash
find /usr -type f -size +30M -size -50M -perm /4000 -exec cp -rvfp {}  /dir2  \;
:wq
```

#chmod 777 /usr/local/bin/script2.sh

#sh /usr/local/bin/script2.sh

==========

5-Create myscript file to locate all files of 10MB upper and 30MB lower in /etc and output will save in /root/script. Copy script file into /usr/local/bin. Make sure run script any location

Solution:

#vim /usr/local/bin/myscript.sh

```
#!/bin/bash
find /etc -type f –size +10M –size -30M > /root/script
:wq
```

#chmod 777 / usr/local/bin/myscript.sh

#sh / usr/local/bin/myscript.sh

==========

6-Change **expire** date for **all users** to be after 20 days

Solution:

#vim /etc/login.defs

```
PASS_MAX_DAYS 99999
```

هتلاقي ديه محطوطه اعملها كومنت هاش او غير القيمه من 9999 ل 20 او امسح السطر واكتب سطر جديد زي اللي تحت

```
PASS_MAX_DAYS 20
:wq
```

==========

7-Change **expire** date for **user** mustafa to be at 2022-02-12

Solution:

#chage -E 2022-02-12 mustafa

==========

8-Change **last change** date for **user** mustafa to be at 2022-02-12

Solution:

#chage -d 2022-02-12 mustafa

==========

9-Change **min** days for **user** mustafa to be 10 days

Solution:

#chage -m 10 mustafa

==========

10-Change **max** days for **user** mustafa to be 20 days

Solution:

#chage -M 20 mustafa

==========

11-Change **warn** days for **user** mustafa to be 5 days

Solution:

#chage -W 5 mustafa

==========

12-Change **in active** days for **user** mustafa to be 7 days

Solution:

#chage -I 7 mustafa

==========

13-User ahmed have default permission is **read on files** and must be permenant

Solution:

```
# su – ahmed
# vim .bashrc
  umask 222
  :wq
# touch file1
# ls -l
# exit
# su – ahmed
```

==========

14-User ahmed have default permission is **write on files** and must be permenant

Solution:

```
# su – ahmed
# vim .bashrc
  umask 444
  :wq
# touch file1
# ls -l
# exit
# su – ahmed
```

==========

15-User ahmed have default permission is **execute on files** and must be permenant

Solution:

```
# su – ahmed
# vim .bashrc
  umask 555
  :wq
# touch file1
# ls -l
# exit
# su – ahmed
```

==========

16-User ahmed have default permission is **read on folders** and must be permenant

Solution:

```
# su – ahmed
# vim .bashrc
  umask 333
  :wq
# touch file1
# ls -l
# exit
# su – ahmed
```

==========

17-User ahmed have default permission is **write on folders** and must be permenant

Solution:

```
# su – ahmed
# vim .bashrc
  umask 555
  :wq
# touch file1
# ls -l
# exit
# su – ahmed
```

==========

18-User ahmed have default permission is **execute on folders** and must be permenant

Solution:

```
# su – ahmed
# vim .bashrc
  umask 666
  :wq
# touch file1
# ls -l
# exit
# su – ahmed
```

==========

19-Gaining Superuser Access Configure Administrative Rights for all Members of Manager to be Able to Execute any Command as any User without Entering their Password

Solution:

vim /etc/sudoers

Allows people in group wheel to run all commands

%manager ALL=(ALL) NOPASSWD: ALL

==========

20-write welcome message “welcome ahmed” for **user** ahmed when login.

Solution:

su – ahmed

vim .bashrc

.bashrc حانكتب الكلام ده بعد ال

echo “welcome ahmed”

او الرسالة اللى طالب انها تتكتب

:wq

exit

su – ahmed

welcome ahmed

==========

21-write welcome message “welcome in exam EX200” for **all users** when logins.

Solution:

vim /etc/profile.d/greeting.sh

```
#!/bin/bash
echo “welcome in exam EX200”
او الرسالة اللى طالب انها تتكتب
:wq
```

```
# chmod 777 /etc/profile.d/greeting.sh
# sh /etc/profile.d/greeting.sh
# su – username
  welcome in exam EX200
```

==========

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Q: Run Script to get files in /usr owned by user julian with size less than 10 mib and set group id and save files under /root/systemfiles

Ans:

```
#!/usr/bin/env bash

if ! [ -d /root/systemfiles ] ; then
      sudo mkdir /root/systemfiles
fi

sudo find /usr -type f -size -10M -user julian -perm /2000 -exec cp -pvf {} /root/systemfiles \;
```