

**Ganpat University
(2CSE204) Basics of Operating System and Shell Scripting**

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Sem - 2

Branch: CS

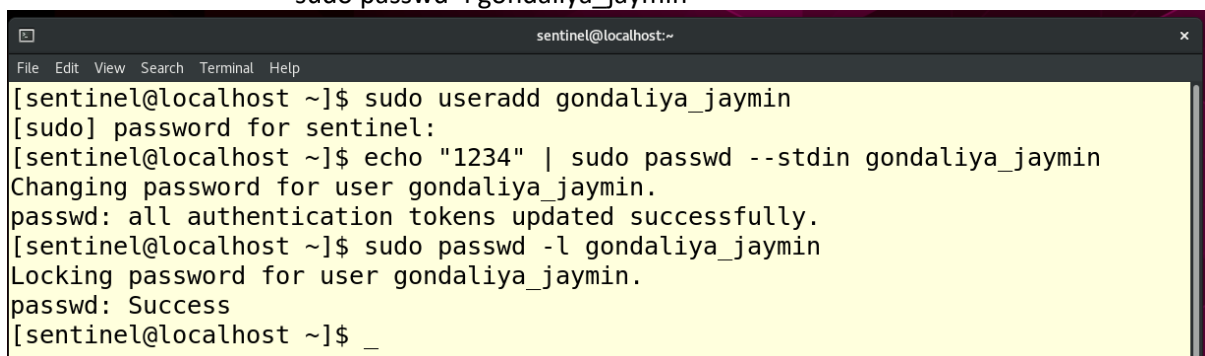
Class: B

Batch: 25

Practical-6

1. Create a user with yourname_surname with some password and lock the account so that the user should not be able to login.

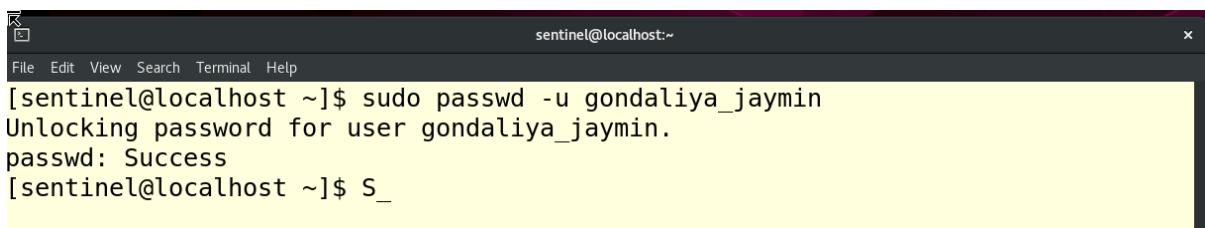
Command: `sudo useradd gondaliya_jaymin`
 `echo "1234" | sudo passwd --stdin gondaliya_jaymin`
 `sudo passwd -l gondaliya_jaymin`



```
sentinel@localhost:~  
File Edit View Search Terminal Help  
[sentinel@localhost ~]$ sudo useradd gondaliya_jaymin  
[sudo] password for sentinel:  
[sentinel@localhost ~]$ echo "1234" | sudo passwd --stdin gondaliya_jaymin  
Changing password for user gondaliya_jaymin.  
passwd: all authentication tokens updated successfully.  
[sentinel@localhost ~]$ sudo passwd -l gondaliya_jaymin  
Locking password for user gondaliya_jaymin.  
passwd: Success  
[sentinel@localhost ~]$ _
```

2. Unlock the the user and now the user should be able to login

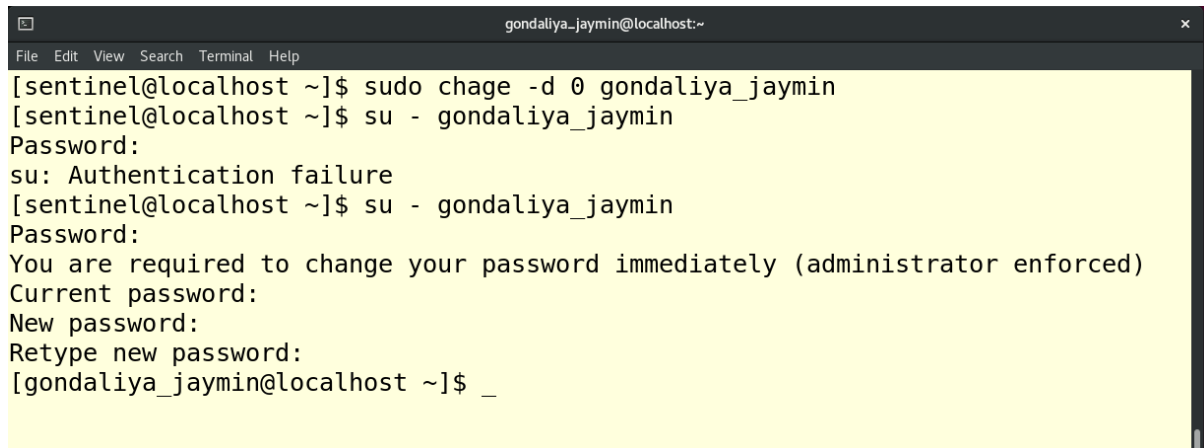
Command: `sudo passwd -u gondaliya_jaymin`



```
sentinel@localhost:~  
File Edit View Search Terminal Help  
[sentinel@localhost ~]$ sudo passwd -u gondaliya_jaymin  
Unlocking password for user gondaliya_jaymin.  
passwd: Success  
[sentinel@localhost ~]$ S_
```

3. Set the password policy of the user in such a way that he needs to change password on next login.

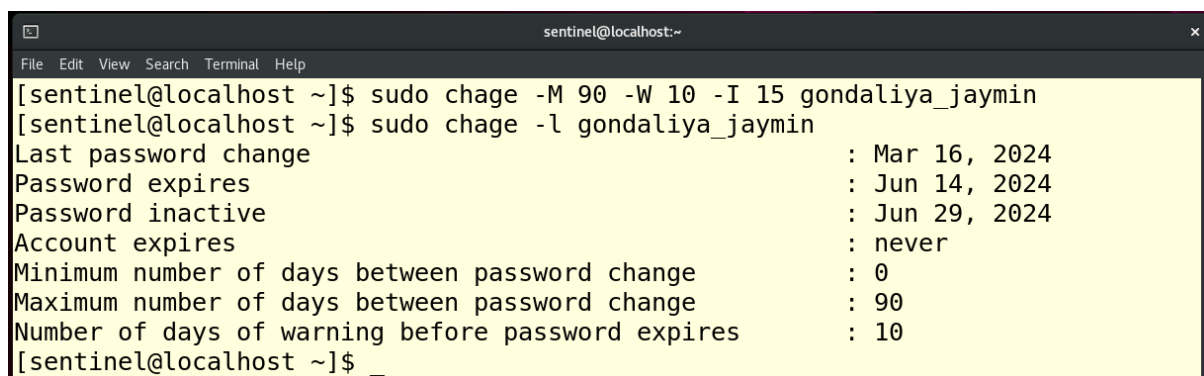
Command: `sudo chage -d 0 gondaliya_jaymin`

A terminal window titled 'gondaliya_jaymin@localhost:~' showing the execution of 'sudo chage -d 0 gondaliya_jaymin'. The user 'sentinel' runs the command, then 'su - gondaliya_jaymin'. A password prompt is shown, followed by 'su: Authentication failure'. The user runs 'su - gondaliya_jaymin' again, and a password prompt is shown. A message states: 'You are required to change your password immediately (administrator enforced)'. The user enters a current password, a new password, and retypes the new password. The prompt returns to the user's shell.

```
gondaliya_jaymin@localhost:~  
File Edit View Search Terminal Help  
[sentinel@localhost ~]$ sudo chage -d 0 gondaliya_jaymin  
[sentinel@localhost ~]$ su - gondaliya_jaymin  
Password:  
su: Authentication failure  
[sentinel@localhost ~]$ su - gondaliya_jaymin  
Password:  
You are required to change your password immediately (administrator enforced)  
Current password:  
New password:  
Retype new password:  
[gondaliya_jaymin@localhost ~]$ _
```

4. Change the password policy for the user to require a new password every 90 days with a warning period of 10 days and an inactive period of 15 days.

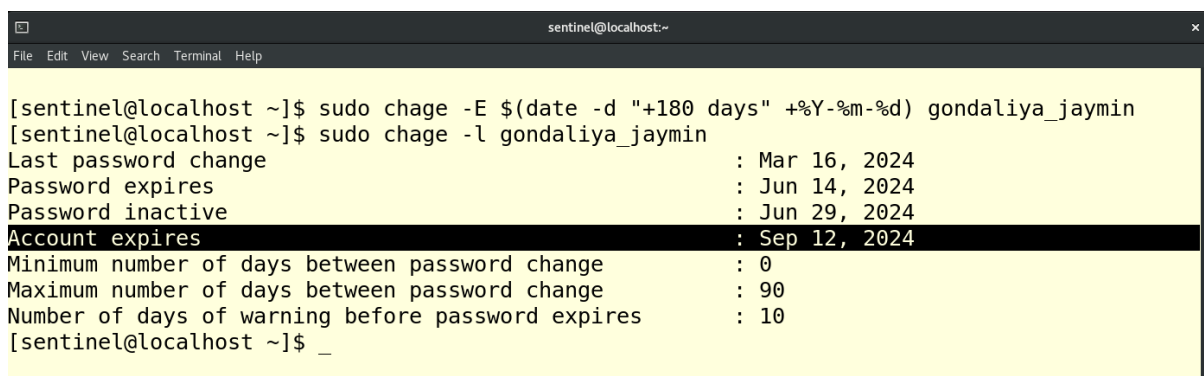
Command: `sudo chage -M 90 -W 10 -I 15 gondaliya_jaymin`

A terminal window titled 'sentinel@localhost:~' showing the execution of 'sudo chage -M 90 -W 10 -I 15 gondaliya_jaymin' and 'sudo chage -l gondaliya_jaymin'. The output shows the current password policy settings for the user.

```
sentinel@localhost:~  
File Edit View Search Terminal Help  
[sentinel@localhost ~]$ sudo chage -M 90 -W 10 -I 15 gondaliya_jaymin  
[sentinel@localhost ~]$ sudo chage -l gondaliya_jaymin  
Last password change : Mar 16, 2024  
Password expires : Jun 14, 2024  
Password inactive : Jun 29, 2024  
Account expires : never  
Minimum number of days between password change : 0  
Maximum number of days between password change : 90  
Number of days of warning before password expires : 10  
[sentinel@localhost ~]$ _
```

5. User's account must expire after 180 days from the date of user creation

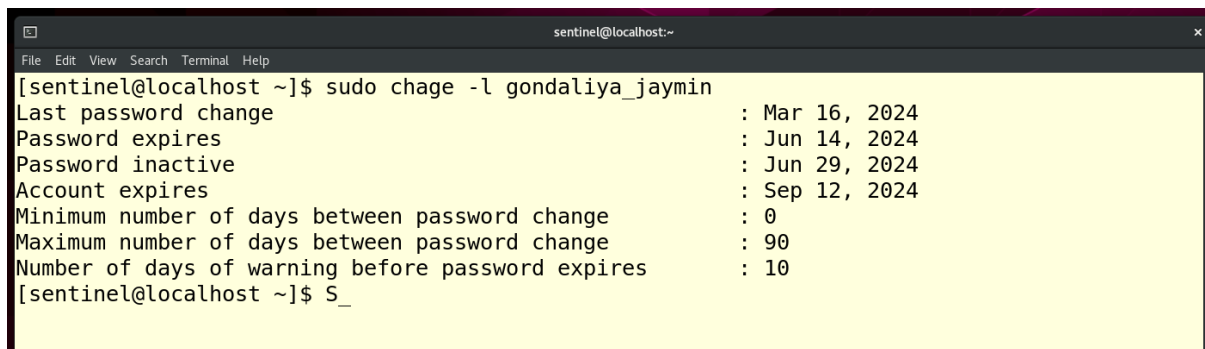
Command: `sudo chage -E $(date -d "+180 days" +%Y-%m-%d) gondaliya_jaymin`

A terminal window titled 'sentinel@localhost:~' showing the execution of 'sudo chage -E \$(date -d "+180 days" +%Y-%m-%d) gondaliya_jaymin' and 'sudo chage -l gondaliya_jaymin'. The output shows the updated password policy settings, including the account expiration date.

```
sentinel@localhost:~  
File Edit View Search Terminal Help  
[sentinel@localhost ~]$ sudo chage -E $(date -d "+180 days" +%Y-%m-%d) gondaliya_jaymin  
[sentinel@localhost ~]$ sudo chage -l gondaliya_jaymin  
Last password change : Mar 16, 2024  
Password expires : Jun 14, 2024  
Password inactive : Jun 29, 2024  
Account expires : Sep 12, 2024  
Minimum number of days between password change : 0  
Maximum number of days between password change : 90  
Number of days of warning before password expires : 10  
[sentinel@localhost ~]$ _
```

6. Verify the password policy

Command: `sudo chage -l yourname_surname`



A terminal window titled 'sentinel@localhost:~' with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal shows the command `sudo chage -l gondaliya_jaymin` and its output:

```
[sentinel@localhost ~]$ sudo chage -l gondaliya_jaymin
Last password change                : Mar 16, 2024
Password expires                    : Jun 14, 2024
Password inactive                   : Jun 29, 2024
Account expires                    : Sep 12, 2024
Minimum number of days between password change : 0
Maximum number of days between password change : 90
Number of days of warning before password expires : 10
[sentinel@localhost ~]$ S_
```