

## Assignment 6: User Management

1. Write a script that adds a new user to the system with a specified username, home directory and password

```
#!/bin/bash
```

```
USERNAME="$1"
```

```
HOMEDIR="$2"
```

```
PASSWORD="$3"
```

```
useradd -m -d "$HOMEDIR" "$USERNAME"
```

```
echo "$USERNAME:$PASSWORD" | chpasswd
```

```
echo "User $USERNAME created with home directory $HOMEDIR"
```

```
root@fedora:/home/abel# ./newuser.sh bob /home/bob bob123
User bob created with home directory /home/bob
root@fedora:/home/abel# cd /home/
root@fedora:/home# ll
total 0
lrwx-----. 1 abel  abel  298 Aug  5 16:50  abel
lrwx-----. 1 bob   bob   80 Aug  5 16:51  bob
root@fedora:/home#
```

## 2. Develop a script that checks the strength of a user's password

```
#!/bin/bash
```

```
PASSWORD="$1"
```

```
echo "$PASSWORD" | perl -ne '
```

```
if (/^(?=.*[a-z])(?=.*[A-Z])(?=.*\d)(?=.*[\W_]).{8,}$/) {
```

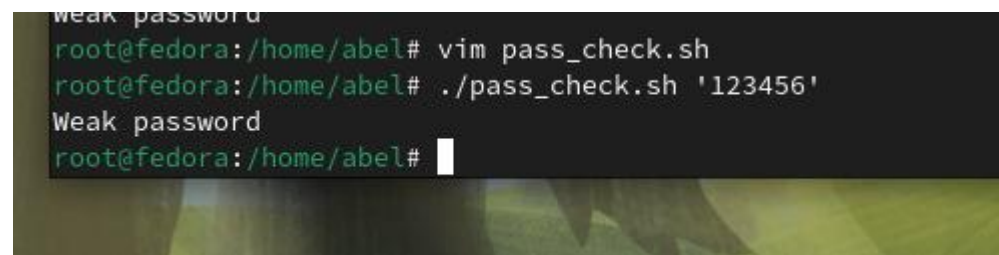
```
    print "Strong password\n";
```

```
} else {
```

```
    print "Weak password\n";
```

```
}
```

```
,
```

A terminal window screenshot showing the execution of a script. The prompt is root@fedora:/home/abel#. The user enters 'vim pass\_check.sh' and then './pass\_check.sh '123456''. The output of the script is 'Weak password'. The prompt returns to root@fedora:/home/abel#.

```
Weak password
root@fedora:/home/abel# vim pass_check.sh
root@fedora:/home/abel# ./pass_check.sh '123456'
Weak password
root@fedora:/home/abel#
```

### 3.Create a script that lists all users in the system and their login times.

```
cut -d: -f1,3 /etc/passwd | awk -F: '$2 >= 1000 {print $1}' | xargs -n1 lastlog -u
```

```
root@fedora:/home/abel# ./login_time.sh
Username      Port      From      Latest
nobody        100000000 0.0.0.0    **Never logged in**
Username      Port      From      Latest
abel          tty2      192.168.1.100 Tue Aug  5 16:46:34 +0530 2025
Username      Port      From      Latest
bob           100000000 0.0.0.0    **Never logged in**
root@fedora:/home/abel#
```