Assignment 6: User Management

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

```
#!/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
drwx------. 1 abel abel 298 Aug  5 16:50 abel
drwx------. 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

```bash
#!/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";
  }
'
```
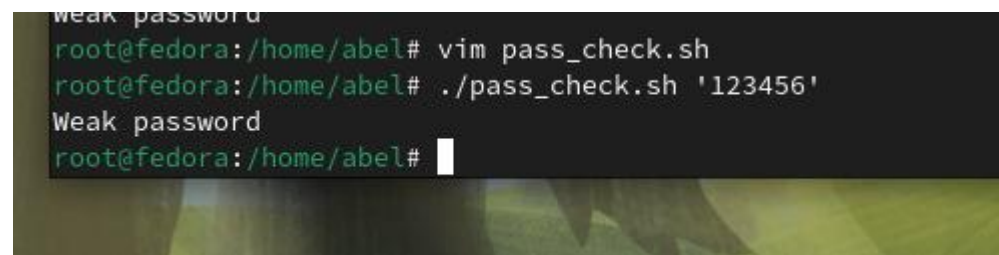
3.Create a script that lists all users in the system and their login times.

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                                                        **Never logg
ed in**
Username         Port     From                                Latest
abel             tty2                                         Tue Aug  5 1
6:46:34 +0530 2025
Username         Port     From                                Latest
bob                                                           **Never logg
ed in**
root@fedora:/home/abel#
```