



1. Write a script called mycase, using the case utility to check the type of character entered by a user:
 - a. Upper Case.
 - b. Lower Case.
 - c. Number.
 - d. Nothing.
2. Enhanced the previous script, by checking the type of string entered by a user:
 - a. Upper Cases.
 - b. Lower Cases.
 - c. Numbers.
 - d. Mix.
 - e. Nothing.
3. Write a script called mychmod using for utility to give execute permission to all files and directories in your home directory.
4. Write a script called mybackup using for utility to create a backup of only files in your home directory.
5. Write a script called mymail using for utility to send a mail to all users in the system.
Note: write the mail body in a file called mtemplate.
6. Write a script called chkmail to check for new mails every 10 seconds. Note: mails are saved in /var/mail/username.

Bonus:

Open a talk session to a certain user when she/he logs into the system.

7. What is the output of the following script

```
typeset -i n1 typeset -i n2
n1=1 n2=1 while test $n1 -
eq $n2 do
```

```
    n2=$n2+1
    print $n1
    if [ $n1 -gt $n2 ]
    then
        break
    else
        continue
    fi
    n1=$n1+1
    print $n2
done
```

8. Create the following menu:

- a. Press 1 to ls
- b. Press 2 to ls -a
- c. Press 3 to exit

Using select utility then while utility.

9. Write a script called myarr that ask a user how many elements he wants to enter in an array, fill the array and then print it.

10. Write a script called myavg that calculate average of all numbers entered by a user.

Note: use arrays

11. Write a function called mysq that calculate square if its argument.