```
1
 $ mycase.sh
       You, 20 hours ago | 1 author (You)
       read -p "Enter a cahr: " char
       if [[ ${#char} -eq 1 ]]; then
           case $char in
                [A-Z])
                    echo "UPper Case"
                    ;;
  11
                [a-z])
                    echo "Lower Case"
                    ;;
                [0-9])
                    echo "Number"
                "")
                    echo "Nothing" You, 20 hours ago • bash lab3
  18
                    echo "Default"
                    ;;
           esac
       else
           echo "enter only one character. your entered \"$char\""
           echo "closing the script.."
           sleep 2
       fi
```

```
2
```

```
mycase-enhanced.sh
     read -p "Enter a char or strng: " input
     if [[ ${#input} -eq 1 ]]; then
          case $input in
              [A-Z])
                   echo "Upper Case"
10
11
12
13
14
              [a-z])
                   echo "Lower Case"
              [0-9])
15
16
17
                   echo "Number"
18
                   echo "Nothing"
20
              *)
                   echo "Default"
22
23
24
25
26
          case $input in
27
              [0-9]*[a-zA-Z]*)
28
                   echo "Mix"
30
              [0-9]*)
                   echo "Numbers"
33
              [A-Z]*)
                   echo "Upper Case"
36
              [a-z]*)
                   echo "Lower Case"
38
40
                   echo "Nothing"
              *)
                   echo "Mix"
44
45
46
47
48
     echo "Closing the script in 2 seconds..."
49
```

4-

```
$ mymail.sh
      You, 20 hours ago | 1 author (You)
     users=`awk -F : '{if($3>=1000){print $1 }}' /etc/p
     body=$(cat ./mtemplate)
     echo "$body"
     for user in $users
11
     do
          echo "$user"
12
13
          echo "I will Send Email for : $user "
          echo "$body" | mail -s "subject1" $user
14
          echo "I will wait 5 Sec "
          sleep 2
     done
     echo "Finish Send Emails"
20
```

6-\$ chkmail.sh You, 20 hours ago | 1 author (You) checkMails() { username=\$(whoami) while true; do if [-e /var/mail/\$username]; then echo "New mails found!" tail /var/mail/\$username else echo "No new mails." 11 fi 12 13 14 sleep 10 done 15 17 checkMails

```
$ q7.sh
     declare -i n2
     n1=1
     n2=1
     while test $n1 -eq $n2
         n2=$(( $n2+1 ))
         echo $n1
         if [ $n1 -gt $n2 ]
         then
             break
             continue
         n1=$(( $n1+1 ))
         echo $n2
20
     <<com
     will brint the n1 value only one time and then
     it will continue to the next iter but it will find the n1 != n2
     because we now have n2+1 so the loob will stop
```

8.1

```
$ myavg.sh
     flag=0
     while [[ $flag < 1 ]] ; do
     read -p "Enter array as spacse sparated numbers to calculate the avf: " -a array
if [ ${#array[@]} -gt 0 ]; then
            sum=0
            cause=0
            for num in "${array[@]}"; do
                if [[ "$num" =~ ^[1-9][0-9]*$ ]]; then
                   sum=$((sum + num))
                elif ! [[ "$num" =~ ^[1-9][0-9]*$ ]]; then
                flag=$((flag + 1))
                cause=$num
                else
                    echo "$num is not a valid number"
                   break
            if [[ $flag < 1 ]];then
            average=$(echo "$sum / ${#array[@]}" | bc)
            break
            else
                echo "plss enter a number this---> '$cause' ins not a num"
         else
            echo "Array is empty"
```