## Mohiuddin Mondal Roll – 001910501043 OS assignment 1 3<sup>rd</sup> year 1<sup>st</sup> Semester

Q4) Write a shell script that counts the number of ordinary files (not directories) in the current working directory and its sub-directories. Ans.

## Following is the script *q4.sh*

```
countFiles(){
    local count=0
    # echo arg:$1 >&2
    for fldir in $(ls $1)
        local fldr="$1/$fldir"
        # echo lsopt:$fldr >&2
        if [ -d $fldr ];
        then
            local c=$(countFiles $fldr)
            # echo c:$c >&2
            ((count+=c))
        else
            ((count+=1))
        fi
    done
    echo $count
}
echo $(pwd)
fcount=$(countFiles $(pwd))
echo $fcount
```

Input and output are as given in following screenshot. First command (ls -R) shows all the directories and the files. Next command executes above code and shows the output that is 60 here.

```
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                                       zulfiqar@zulqarnain: ~/assignmentGit/thirdYear
 ./computerNetworks:
  signment1 assignment2 Report_guidelines.pdf
Assignment#1_C01_ErrorDetection.pdf CN-assignment1.jpg header line-graph.png
assignment1_report.pdf filestructre.jpg lib test
 ./computerNetworks/assignment1/lib:
                             detailed_report.txt log_report.txt
                                                                                          server.cpp
                              errorInjector.cpp random_binary_stings.txt
./computerNetworks/assignment2/header:
error_delay.hpp errorDetection.hpp flowcontrol.hpp networknode.hpp
 gbn_reciever PlatformChannel.cpp srsoutput.jpg
GBN_reciever sendData1.jpg srs_reciever
gbn_rectever sendData1.jpg srs_rectever sw_rectever
GBN_rectever.cpp sendData2.jpg SRS_rectever.cpp SW_rectever
gbn_sender sendData3.jpg srs_sender SW_rectever
                                                                       SW reciever.cpp
BCSE-OS-assignments-I-2021.pdf q1.sh q2.sh q3.sh q4.sh q6.sh sample.txt (base) zulfiqar@zulqarnain:~/assignmentGit/thirdYear(mmaker)$./OS/assignment1/q4.sh
```