User Records Scripts Report



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MS-DOS script program

```
The code layout
@echo off
REM creating the user records directory
mkdir C:\user records
cls
REM remove any quotation marks
set tempName=%~1
REM check if the first parameter is empty and run interative mode if
REM it is
if "%tempName%"=="" (
goto imode
REM check the existence of a second parameter
REM inform the user that we are missing 1 parameter and then run
REM interactive mode
if "%2"=="" (
@echo Error: There is no second parameter.
@echo Starting the interactive mode.
goto imode
REM check the existence of more than 2 parameters
REM inform the user that they entered more than 2 parameters and then
REM run interactive mode
if not "%3"=="" (
@echo Error: No more than two parameters are accepted.
@echo Starting the interactive mode.
goto imode
REM set variables used as data for the file creation
set nameInput=%tempName%
set textfileName=%2
REM check if the file already exists with the same name
REM if exists print an error message to the user and go to imode
if exist c:\user records\%textfileName%.txt (
@echo Error: Invalid UserName. File already exists.
@echo Starting the interactive mode.
goto imode
REM getting the date and time for the file creation
for /f "tokens=2 delims==" %%a in ('wmic OS Get localdatetime /value')
do set "dt=%%a"
set "YY=%dt:~2,2%" & set "YYYY=%dt:~0,4%" & set "MM=%dt:~4,2%" & set
"DD=%dt:~6,2%"
```



```
set "HH=%dt:~8,2%" & set "Min=%dt:~10,2%" & set "Sec=%dt:~12,2%"
set "fullstamp=%DD%/%MM%/%YYYY%:%HH%:%Min%:%Sec%"
REM print the user data in the file
echo (%nameInput%
echo(%textfileName%
echo (%fullstamp%
>> C:\user records\%textfileName%.txt
REM display success message to the user
goto displayMessage
REM this is the interactive mode asking the user for input
set /p tempName=What is your name?
set /p textfileName=What is your chosen username?
REM Check if the user didn't input anything
REM if so print an error message and ask for the input again by
REM restarting interactive mode
if "%tempName%"=="" (
@echo Error: Name input was empty/blank.
@echo Please insert your data again.
goto imode
REM Check if the user didn't input anything
REM if so print an error message and ask for the input again by
REM restarting interactive mode
if "%textfileName%%"=="" (
@echo Error: User Name input was empty/blank.
@echo Please insert your data again.
goto imode
REM remove any quotation marks
set tempName=%tempName:"=%
set nameInput=%tempName%
if exist c:\user records\%textfilename%.txt (
@echo Error: Invalid UserName. File already exists.
@echo Restarting the interactive mode.
goto imode
)
REM getting the date and time for the file creation
REM Based on code found on the web(check references) (Selix, 2005)
for /f "tokens=2 delims==" %%a in ('wmic OS Get localdatetime /value')
do set "dt=%%a"
set "YY=%dt:~2,2%" & set "YYYY=%dt:~0,4%" & set "MM=%dt:~4,2%" & set
"DD=%dt:~6,2%"
set "HH=%dt:~8,2%" & set "Min=%dt:~10,2%" & set "Sec=%dt:~12,2%"
set "fullstamp=%DD%/%MM%/%YYYY%:%HH%:%Min%:%Sec%"
```



```
REM print the user data in the file
echo(%nameInput%
echo(%textfileName%
echo(%fullstamp%
) >> C:\user_records\%textfileName%.txt
REM display success message to the user
:displayMessage
@echo Your file has been created and is in C:\user_records directory.
@echo It is named %textfileName%.txt
REM deleting the variables stored
set nameInput=
set textfileName=
set fullstamp=
set tempName=
set YY=
set YYYY=
set MM=
set DD=
set HH=
set Min=
set Sec=
pause
```



Screenshots



Figure 1-Screenshot of the program working in interactive mode.

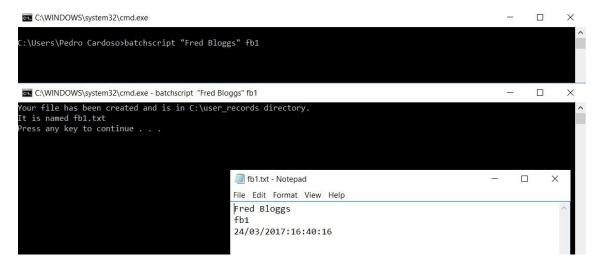


Figure 2-Screenshot of the program working in non-interactive mode.

```
C:\Windows\System32\cmd.exe - batchscript.bat — X

What is your name? Fred Bloggs
What is your chosen username? fb1

Error: Invalid UserName. File already exists.

Restarting the interactive mode.

What is your name?
```

Figure 3- Inserting a user name that already exists makes the program ask for input again. Preventing the user from overwritting an existing file.





Figure 4- Running the non-interactive mode with just one parameter will cause the program to start interactive mode and ask for user input again.



Figure 5-Running the non-interactive mode with more than two parameters will cause the program to start interactive mode and ask for user input again.



Figure 6- The program will check if the input is empty. If that is true the program will then ask for the user input once again.



Shell Script Program

The code layout

```
#!/bin/bash
#Creating a directory if it doesnt exist already
mkdir -p -- "user records"
#index for the loop condition, set default value to 1
loopindex=1
#variable to prevent the loop to iterate over and over again when an
error occurs
#will be used in an if statement as long as a parameter check
#default value is 1
ifFlag=1
#while loop that keeps iterating untill the user gives the correct
input
while [[ loopindex -eq 1 ]]; do
    #statements
    #if no parameters are added the go to interactive mode
    if [ $# == 0 ] || [[ ifFlag -eq 0 ]]
        then
        #Interactive mode
        #Ask the user for input
        echo What is your name?
        read tempName
        #check if the input is empty
        if [ -z "$tempName" ]
            echo ERROR: The name input was empty/blank.
            echo Please insert your data again.
            #skip the rest of the loop iteration
            continue
        fi
        #removing the double quotes
        nameInput="${tempName%\"}"
        nameInput="${nameInput#\"}"
        #Ask the user for their username
        echo What is your chosen username?
        read textFileName
        #check if the input is empty
        if [ -z "$textFileName" ]
            then
            echo ERROR: The user name input was empty/blank.
            echo Please insert your data again.
            #skip the rest of the loop iteration
            continue
        fi
```



```
#check if the file already exists
        if [ -f ~/user_records/$textFileName.txt ]
            then
            echo ERROR: Invalid UserName. File already exists.
            echo Please insert your data again.
            #skip the rest of the loop iteration
            continue
        fi
        #get the date and the time
        dateNow=$(date +"%d/%m/%Y")
        timeNow=$(date +"%T")
        #variable that hold data in a single string for the file
        fullStamp=$dateNow:$timeNow
        #append all the information to a file
        echo $nameInput >>~/user records/$textFileName.txt
        echo $textFileName>>>~/user records/$textFileName.txt
        echo $fullStamp >>~/user records/$textFileName.txt
        #display to the user a success message
        echo Your file has been created and is in ~/user records/
        echo It is named $textFileName.txt
        #deleting variable content
        dateNow=""
       timeNow=""
       nameInput=""
       textFileName=""
       fullStamp=""
       tempName=""
       break
   #end of the interactive mode
   fi
   #check if there is a second parameter
   if [ "$2" == "" ]
        then
        echo ERROR: There is no second parameter.
  #change the ifflag value because we want the if statement to run
#but we have more than 0 parameters so this will make it run [ $\# == 0
#] || [[ ifFlag -eq 0 ]]
        ifFlag=0
        echo Starting the interactive mode.
        #skip the rest of the loop iteration
        continue
   #check if there is more than 2 parameters
   elif [ $# -gt 2 ]
        then
        echo ERROR: No more than two parameters are accepted.
      #change the ifflag value because we want the if statement to run
      #on the start of the interactive mode
        ifFlag=0
```



```
echo Starting the interactive mode.
        #skip the rest of the loop iteration
        continue
    #Non interactive mode
    else
        nameInput=$1
        textFileName=$2
        #check if the file already exists
        if [ -f ~/user records/$textFileName.txt ]
            then
            echo ERROR: Invalid UserName. File already exists.
      #change the ifflag value because we want the if statement to run
            #on the start of the interactive mode
            ifFlag=0
            echo Starting the interactive mode.
            #skip the rest of the loop iteration
            continue
        fi
        #get the date and the time
        dateNow=$(date +"%d/%m/%Y")
        timeNow=$(date +"%T")
        #variable that hold data in a single string for the file
        fullStamp=$dateNow:$timeNow
        #append all the data to a file
        echo $nameInput >>~/user_records/$textFileName.txt
        echo $textFileName>>~/user_records/$textFileName.txt
        echo $fullStamp >>~/user_records/$textFileName.txt
        #display to the user a success message
        echo Your file has been created and is in ~/user records/
        echo It is named $textFileName.txt
        #deleting variable content
        dateNow=""
        timeNow=""
       nameInput=""
        textFileName=""
        fullStamp=""
        tempName=""
        loopindex=""
        ifFlag=""
    #end of the Non interactive mode
    #break command to stop the loop
   break
done
#exit the program
exit
```



Screenshots

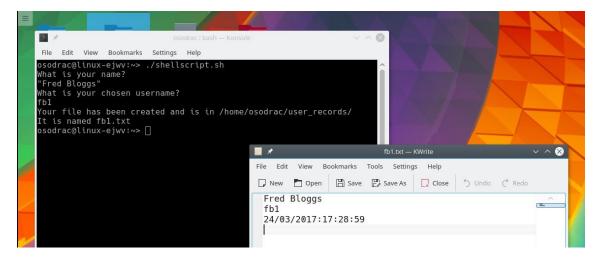


Figure 7-Screenshot of the program working in interactive mode.

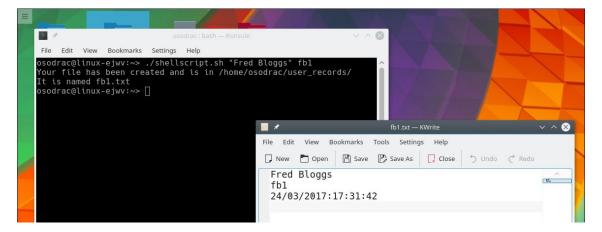


Figure 8- Screenshot of the program working in non-interactive mode.

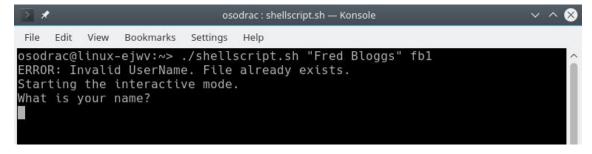


Figure 9- Inserting a user name that already exists makes the program ask for input again. Preventing the user from overwritting an existing file.



Figure 10- Running the non-interactive mode with just one parameter will cause the program to start interactive mode and ask for user input again.

Figure 11- Running the non-interactive mode with more than two parameters will cause the program to start interactive mode and ask for user input again.

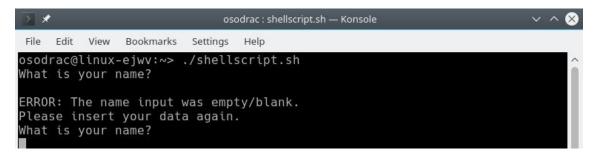


Figure 12- The program will check if the input is empty. If that is true the program will then ask for the user input once again.



References

Selix, J., 2005. *Tech-Recipes*. [Online]

Available at: http://www.tech-recipes.com/rx/956/windows-batch-file-bat-to-get-current-

date-in-mmddyyyy-format/ [Accessed 27 April 2017].