

Unix-Skill Based Assessment

Q. 1) Write a shell script to get the current date, time, username, and current working directory.

Code

```
echo "Current date is: "  
date  
echo "Date in dd-mm-yyyy format is: "  
date +"%d-%m-%y"  
echo "Current time is in the given system: "  
date "+%T"  
echo "Username is: "  
whoami  
echo "Current Working Directory of the system: "  
pwd  
~  
~  
~  
~
```

Output

```
91788@LAPTOP-0620UP2L MINGW64 ~  
$ vi first.sh  
  
91788@LAPTOP-0620UP2L MINGW64 ~  
$ sh first.sh  
Current date is:  
Mon Mar 20 14:33:42 IST 2023  
Date in dd-mm-yyyy format is:  
20-03-23  
Current time is in the given system:  
14:33:42  
Username is:  
91788  
Current Working Directory of the system:  
/c/Users/91788  
  
91788@LAPTOP-0620UP2L MINGW64 ~  
$ .....
```

Q. 2) Write a shell script to print the count of files and subdirectories in the specified directory.

Code

```
MINGW64:/c/Users/91788/Desktop
echo "Enter directory name in which you want to count sub-directories and files:"
read DIR
cd "$DIR" || exit
file=0
dir=0
for d in *;
do
    if [ -d "$d" ]; then
        dir=$((dir+1))
    else
        file=$((file+1))
    fi
done
echo "Files $file"
echo "Directories $dir"
~
~
~
~
~
~
~
```

OUTPUT

```
91788@LAPTOP-0620UP2L MINGW64 ~/Desktop
$ vi second.sh

91788@LAPTOP-0620UP2L MINGW64 ~/Desktop
$ sh second.sh
Enter directory name in which you want to count sub-directories and files:
Geeks
Files 3
Directories 7

91788@LAPTOP-0620UP2L MINGW64 ~/Desktop
$ cd Geeks

91788@LAPTOP-0620UP2L MINGW64 ~/Desktop/Geeks
$ ls
205120016_AI_LAB_REPORT.pdf  CODING_DSA/  GATE_NOTES/  Programming_Languages/  handwritten-calculator/
205120016_final_report.docx  DataScience/ 'Handwritten Calculator'/ Web_Technology/         reference_paper.pdf

91788@LAPTOP-0620UP2L MINGW64 ~/Desktop/Geeks
$ |
```

Q .3) Write a shell script to print the reverse of an input number.

Code

```
echo "Enter a number"
read n
sd=0
rev=0

while [ $n -gt 0 ]
do
    sd=$(( $n % 10 ))
    rev=$(( $rev * 10 + $sd ))
    n=$(( $n / 10 ))
done

echo "Reverse number of given number is $rev"
~
~
~
~
```

OUTPUT

```
91788@LAPTOP-O62OUP2L MINGW64 ~
$ pwd
/c/Users/91788

91788@LAPTOP-O62OUP2L MINGW64 ~
$ vi third.sh

91788@LAPTOP-O62OUP2L MINGW64 ~
$ sh third.sh
Enter a number
12345
Reverse number of given number is 54321

91788@LAPTOP-O62OUP2L MINGW64 ~
$ .....
```