

Exercise 21: Writing Scripts - Part 2

- I. Prepare the environment
- II. Accept input from user, if and case statement

1. Login to the CentOS server with student
2. Write a shell script to create a new user based on the information supplied by user as the following scenario:

The script will ask user to input the following information:

- User name
- Home directory
- Default shell

After supplied above information, ask user to confirm the user creation, just allow user to input 1 characters Y for yes or N for no. The message as follows:

"Are you sure to create user with the above information (Y/N)?"

If the answer is yes, show the completed message:

"Your user is created successfully with the following information:

User name: <user name that user supplied>

Home directory: <home dir that user supplied>

Default shell: <shell that user supplied>"

Note: you do not need to create the user actually

If the answer is no, just show *"The user creation is canceled by user."*

3. Write a script to do the basic math equations with the scenario as follows:
 - The script get 2 number from user
 - Compare the 2 number
 - Calculate the result of equation: <bigger number>/<smaller number>. Using bc with scale=2.
4. Write a script to list a number of users as requested. The scenario is as follows:
The script asks user to in put the number of users that he/she want to display

"How many users do you want to display"

Based on the number that user supply, display the first # users appropriate (# is the number supplied by user).

If the number is 1 then the output as follows:

"The first users of the system is:

<the first line from /etc/passwd>"

If the number is more than 1 then the output as follows:

“The first <number supplied by user> users of the system are:
<the first # line from /etc/passwd>”

If the number is more than 10 then the output as follows:
“The number that you input is out of range.”

Exercise Instructions

- I. Prepare the environment
- II. Accept input from user, if and case statement

1. Login to the CentOS server with student
2. Write a shell script to create a new user based on the information supplied by user as the following scenario:

The script will ask user to input the following information:

- User name
- Home directory
- Default shell

After supplied above information, ask user to confirm the user creation, just allow user to input 1 characters Y for yes or N for no. The message as follows:

"Are you sure to create user with the above information (Y/N)?"

If the answer is yes, show the completed message:

"Your user is created successfully with the following information:

User name: <user name that user supplied>

Home directory: <home dir that user supplied>

Default shell: <shell that user supplied>"

Note: you do not need to create the user actually

If the answer is no, just show *"The user creation is canceled by user."*

```
#!/bin/bash

echo "Please supply some information to create the user you want."

read -p "User name:" name

read -p "Home directory:" home

read -p "Default shell:" shell

read -n 1 -p "Are you sure to create user with the above information (Y/N)?"
confirm

if [ $confirm = "Y" ] || [ $confirm = "y" ]

then
```

```

echo -e "\n"

echo "Your user is created successfully with the following information:"

echo "User name: $name"

echo "Home directory: $home"

echo "Default shell: $shell"

else

    echo "The user creation is canceled by user."

fi

```

3. Write a script to do the basic math equations with the scenario as follows:
- The script get 2 number from user
 - Compare the 2 number
 - Calculate the result of equation: <bigger number>/<smaller number>. Using bc with scale=2.

```

#!/bin/bash

read -p "Input the first number: " x

read -p "Input the second number: " y

if [ $x -gt $y ]

then

    echo "The first number is greater than the second"

    echo "The result of dividing the greater number by the less one is $(echo "scale=2;$x/$y"|bc)"

elif [ $x -eq $y ]

then

    echo "The two numbers are equal"

    echo "The result of dividing one number to other is 1"

else

    echo "The second number is greater than the first"

```

```
    echo "The result of dividing the greater number by the less one is $(echo
"scale=2;$y/$x"lbc)"
fi
```

4. Write a script to list a number of users as requested. The scenario is as follows:
The script asks user to input the number of users that he/she wants to display

"How many users do you want to display"

Based on the number that user supplies, display the first # users appropriate (# is the number supplied by user).

If the number is 1 then the output is as follows:

"The first users of the system is:

<the first line from /etc/passwd>"

If the number is more than 1 then the output is as follows:

"The first <number supplied by user> users of the system are:

<the first # line from /etc/passwd>"

If the number is more than 10 then the output is as follows:

"The number that you input is out of range."

```
#!/bin/bash

read -p "How many users would you like to display " number

case $number in

1) echo -e "The first user in the system is:\n$(head -1 /etc/passwd)" ;;

[2-9]) echo -e "The first $number users in the system is:\n$(head -$number
/etc/passwd)" ;;

*) echo "The number that you input is out of range" ;;

esac
```