

# Command Line Assignment

## Peer review for Dhruv Singla:

**Q1. Write a bash script to get the current date, time, username, home directory and current working directory.**

Current date : formatted date in date/month name/yyyy and time in IST.

Username: used \$whoami

Home directory: \$home

Current working directory: \$pwd

**Q2. Write a bash script (name Table.sh) to print the Table of a number by using a while loop. It should support the following requirements.**

- The script should accept the input from the command line.
- If you don't input any data, then display an error message to execute the script correctly.

Approach: Take input in val variable, while val is empty then ask for input again in val variable. After that while val is not number then ask for input until is not number. If it is number then using a while loop we can make a table by incrementing the loop variable by 1 and multiply the val and loop variable each time and print the result. Loop breaks when loop variable exceeds 10.

**Q3. Write a Function in bash script to check if the number is prime or not? It should support the following requirement.**

- The script should accept the input from the User.

Approach:

Take an input number from the user. Then take the sqrt of the number and store it in a variable.

After that using a loop variable which starts from 2 till sqrt variable. If the loop variable divides the number then it is not a prime number. If the loop ends and it hasn't divided that number then the input number is a Prime number.

**Question 4. Create a bash script that supports the following requirement.**

- **Create a folder 'Assignment'.**
- **Create a file 'File1.txt' inside 'Assignment' Folder.**
- **Copy all the content of Table.sh(2nd script) in 'File1.txt' without using 'cp' and 'mv' command.**
- **Append the text 'Welcome to Sigmoid' to the 'File1.txt' file.**
- **List all the directories and files present inside Desktop Folder.**

Approach:

Check for the assignment folder .If it already exists then remove it as we have to run code multiple times.Then make a directory named assignment .Then touch a file1.txt.Then replace the content of Q2 in file1.txt using piping.After That append using ">>" operator "welcome to sigmoid". Finally print the content of the desktop using ls command.

**Question 5. You have given an array. Using Bash script, print its length, maximum element and minimum element. arr=( 2 3 4 1 6 7).**

Approach:

Find the length of array .Then take two variables min and max .Min stores minimum value and max stores the maximum value. Both initialized with the first element of the array.

Then iterating over the array element and checking the current element with max and min .If max is lesser than current element then update current element as max and if min is greater than current element then update current element as min.After loop ends we will end with maximum and minimum value in max and min variable.

## **Peer review for Aakash Singhal**

**Q1.Write a bash script to get the current date, time, username, home directory and current working directory.**

Current date : used \$date

Username:used \$whoami

Home directory:\$home

Current working directory: \$pwd

**Q2. Write a bash script (name Table.sh) to print the Table of a number by using a while loop. It should support the following requirements.**

- The script should accept the input from the command line.
- If you don't input any data, then display an error message to execute the script correctly.

Approach: if input is not number then exit from code .If it is number then using a while loop we can make a table by incrementing the loop variable by 1 and multiply the val and loop variable each time and print the result. Loop breaks when loop variable exceeds 10.

**Q3. Write a Function in bash script to check if the number is prime or not? It should support the following requirement.**

- The script should accept the input from the User.

Approach:

Take an input number from the user . After that using a loop variable which starts from 2 till sqrt variable .If the loop variable divides the number then it is not a prime number. If the loop ends and it hasn't divided that number then the input number is a Prime number.

**Question 4. Create a bash script that supports the following requirement.**

- Create a folder 'Assignment'.
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- Copy all the content of Table.sh(2nd script) in 'File1.txt' without using 'cp' and 'mv' command.
- Append the text 'Welcome to Sigmoid' to the 'File1.txt' file.
- List all the directories and files present inside Desktop Folder.

Approach:

make a directory named assignment .Then touch a file1.txt.Then replace content of Q2 in file1.txt using piping.After That append using ">>" operator "welcome to sigmoid". Finally print the content of the desktop using ls command.

**Question 5. You have given an array. Using Bash script, print its length, maximum element and minimum element. arr=( 2 3 4 1 6 7).**

Approach:

Find the length of array .Then take two variables min and max .Min stores minimum value and max stores the maximum value. Both initialized with the first element of the array.

Then iterating over the array element and checking the current element with max and min .If max is lesser than current element then update current element as max and if min is greater than current element then update current element as min.After loop ends we will end with maximum and minimum value in max and min variable.