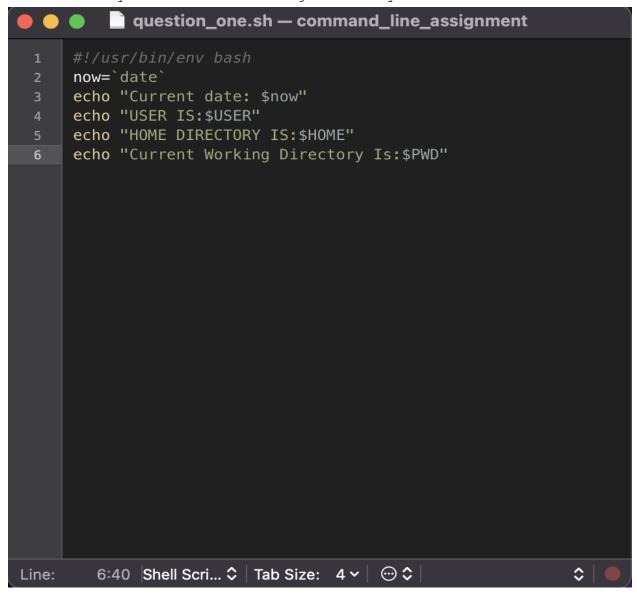
Command Line Assignment

Question 1. Write a bash script to get the current date, time, username, home directory and current working directory.



```
devarithish@Devas-MacBook-Air command_line_assignment % bash question_one.sh
Current date: Thu Feb 2 11:50:49 IST 2023
USER IS:devarithish
HOME DIRECTORY IS:/Users/devarithish
Current Working Directory Is:/Users/devarithish/desktop/command_line_assignment
devarithish@Devas-MacBook-Air command_line_assignment %
```

Question 2. 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.

```
question_two.sh — command_line_assignment
      if [ $# -eq 0 ]; then
 3 ▼
          echo "No number entered"
      else
      for (( i=1 ; i<=10 ; i++ ));
 8 ▼
          ans=\ensuremath{\text{expr}} $n \* $i\
          echo "$n X $i = $ans"
12 ▲
        done
13 ▲ fi
         14:2 Shell Scri... ♦ Tab Size: 4 ➤ 💮 ♦
Line:
```

```
[devarithish@Devas-MacBook-Air command_line_assignment % bash question_two.sh
No number entered
[devarithish@Devas-MacBook-Air command_line_assignment % bash question_two.sh
No number entered
[devarithish@Devas-MacBook-Air command_line_assignment % bash question_two.sh 6
6 X 1 = 6
6 X 2 = 12
6 X 3 = 18
6 X 4 = 24
 X 5 = 30
6 X 6 = 36
6 X 7 = 42
6 X 8 = 48
6 X 9 = 54
6 \times 10 = 60
devarithish@Devas-MacBook-Air command_line_assignment %
```

Question 3. 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.

```
question_three.sh — command_line_assignment
       question_three.sh
     #!/usr/bin/env bash
      echo "Enter the number: "
     read n
      flag=0
      for (( i=2 ; i<$n ; i++ ));
 6 ▼
      do
          if [\$((n\%i)) == 0]; then
 7 ▼
              echo "Not a Prime Number"
              flag=1
              break
          fi
11 ▲
      done
12 ▲
13 ▼
      if [ $flag == 0 ]; then
          echo "Prime number"
      fi
15 ▲
17
        13:7 Shell Scri... ♦ Tab Size: 4 ➤ 🗡 ♦ Symbols
Line:
```

```
devarithish@Devas-MacBook-Air command_line_assignment % bash question_three.sh
Enter the number:

5
Prime number
devarithish@Devas-MacBook-Air command_line_assignment % bash question_three.sh
Enter the number:

6
Not a Prime Number
devarithish@Devas-MacBook-Air command_line_assignment % []
```

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.

```
question_four.sh — command_line_assignment
     #!/usr/bin/env bash
      path="/Users/devarithish/Desktop/"
     if [ ! -d $path/assignment ]; then
 4 ▼
       mkdir -p $path/assignment;
       echo "Directory created"
       touch $path/assignment/File1.txt
       echo "File created"
       cat $path/command_line_assignment/Table.sh > $path/assignment/Table.sh
       echo "Text written from Table.sh to File1.txt"
       echo "Welcome to Sigmoid" >> $path/assignment/File1.txt
11
       echo "Text appended to File1.txt"
12
       echo "ALL FILES IN DESKTOP:"
13
       ls $path
     else
          echo "Directory exists already"
17 ▲
     fi
        1:20 Shell Scri... ♦ Tab Size: 4 ➤ 🕒 ♦
Line:
```

```
| devarithish@Devas-MacBook-Air command_line_assignment % bash question_four.sh
Enter the Path
Directory created
File created
Text written from Table.sh to File1.txt
Text appended to File1.txt
ALL FILES IN DESKTOP:
GIT-ASSIGNMENT Screenshot 2023-01-25 at 3.43.21 PM.png Screenshot 2023-02-02 at 11.51.47 AM.png project
PYTHON ASSIGNMENT Screenshot 2023-01-25 at 3.43.25 PM.png Screenshot 2023-02-02 at 12.36.00 PM.png python practice
Screenshot 2023-01-18 at 11.46.01 AM.png Screenshot 2023-01-25 at 5.34.13 PM.png assignment yo.csv
Screenshot 2023-01-19 at 6.15.16 PM.png Screenshot 2023-01-26 at 1.28.48 AM.png command_line_assignment yo.numbers
Screenshot 2023-01-19 at 9.38.15 PM.png Screenshot 2023-01-26 at 1.44.07 AM.png dem2
Screenshot 2023-01-25 at 3.08.59 PM.png Screenshot 2023-01-26 at 12.56.58 AM.png git
```

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).

```
<< COMMENTS
echo "Enter the size of the array:"
read n
if [ $n == 0 ]; then
   echo "Empty Array"
fi
myarray=()
echo "Enter the array:"
for (( i=1; i<=$n; i++ ));
do
    read myarray[$i]
mi=${myarray[1]}
mx=${myarray[1]}
for i in ${!myarray[@]}; do
    if [ $mi -ge $i ]; then
        mi=$i
    fi
    if [ $mx -le $i ]; then
        mx=$i
    fi
echo "Max element= ${mx} and Min element=${mi}"
COMMENTS
# method 2
myarray=( 2 3 4 1 6 7 )
IFS=$'\n'
echo "Max:"
echo "${myarray[*]}" | sort -nr | head -n1
echo "Min:"
echo "${myarray[*]}" | sort -n | head -n1
```

```
[devarithish@Devas-MacBook-Air command_line_assignment % bash question_five.sh
Max:
7
Min:
1
devarithish@Devas-MacBook-Air command_line_assignment %
```