

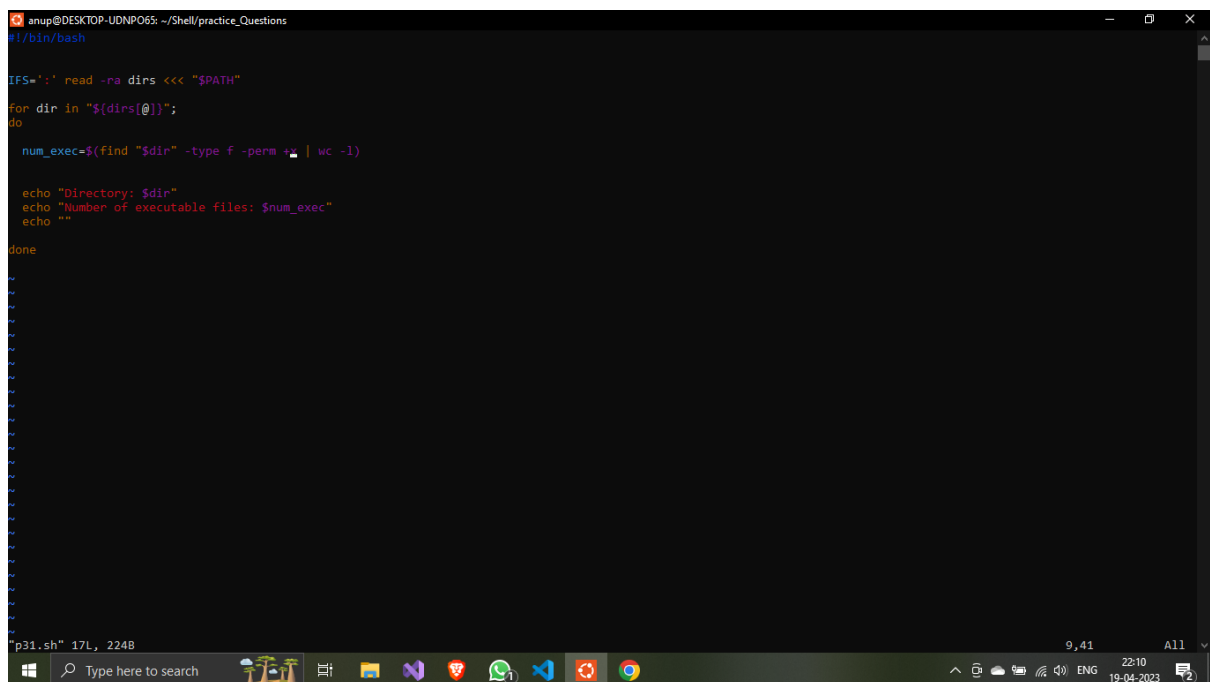
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Topic – Assignment Question 3

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Question – Script or each directory in the \$PATH variable, to display the number of executable files in that directory.

Code –



```
anup@DESKTOP-UDNP065: ~/Shell/practice_Questions
#!/bin/bash

IFS=: read -ra dirs <<< "$PATH"
for dir in "${dirs[@]};
do
    num_exec=$(find "$dir" -type f -perm +x | wc -l)
    echo "Directory: $dir"
    echo "Number of executable files: $num_exec"
    echo ""
done
```

The screenshot shows a terminal window with a bash script. The script uses IFS=: to split the \$PATH variable into an array of directories. It then iterates over each directory, using find to count the number of executable files (files with the execute permission bit set). The output of the script is displayed in the terminal, showing the directory path and the count of executable files for each directory in the \$PATH variable.

Output –

```
anup@DESKTOP-UDNP065: ~/Shell/practice_Questions
anup@DESKTOP-UDNP065:~/Shell/practice_Questions$
anup@DESKTOP-UDNP065:~/Shell/practice_Questions$ ./p34.sh
Enter Your Weight in Kg
60
Enter Your Height in Meters
1.75
File scale=2 1.75 * 1.75 is unavailable.

anup@DESKTOP-UDNP065:~/Shell/practice_Questions$
anup@DESKTOP-UDNP065:~/Shell/practice_Questions$ vi p34.sh
anup@DESKTOP-UDNP065:~/Shell/practice_Questions$
anup@DESKTOP-UDNP065:~/Shell/practice_Questions$ ./p34.sh
Enter your weight in kilograms:
60
Enter your height in meters:
1.72
Your BMI is 20.33
You have a healthy weight.
anup@DESKTOP-UDNP065:~/Shell/practice_Questions$
anup@DESKTOP-UDNP065:~/Shell/practice_Questions$ vi p32.sh
anup@DESKTOP-UDNP065:~/Shell/practice_Questions$
anup@DESKTOP-UDNP065:~/Shell/practice_Questions$ chmod u+x p32.sh
anup@DESKTOP-UDNP065:~/Shell/practice_Questions$
anup@DESKTOP-UDNP065:~/Shell/practice_Questions$ ./p32.sh
Enter the username to search for:
anup
User anup found in the system.
anup@DESKTOP-UDNP065:~/Shell/practice_Questions$
anup@DESKTOP-UDNP065:~/Shell/practice_Questions$ ./p32.sh
Enter the username to search for:
root
User root found in the system.
anup@DESKTOP-UDNP065:~/Shell/practice_Questions$
anup@DESKTOP-UDNP065:~/Shell/practice_Questions$ vi p31.sh
anup@DESKTOP-UDNP065:~/Shell/practice_Questions$ chmod u+x p31.sh
anup@DESKTOP-UDNP065:~/Shell/practice_Questions$ ./p31.sh
find: invalid mode '+111'
Directory: /usr/local/sbin
Number of executable files: 0

find: invalid mode '+111'
Directory: /usr/local/bin
Number of executable files: 0
```