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Course – Operating System Lab
Assignment 1A

Write shell script (menu driven program) to display disk space usage of the file system, including the total space, used space, available space, and usage percentage.

Program –

```
while true; do
echo "-------------------------------"
echo "Disk Space Usage Menu"
echo "-------------------------------"
echo "1. Display Disk Usage"
echo "2. Display Total Space"
echo "3. Display Used Space"
echo "4. Display Available Space"
echo "5. Display Usage Percentage"
echo "6. Exit"

echo "Enter Choice "
read ch

case $ch in
1) echo "Disk space usage : "
   df -h
   ;;
2) echo "Total Disk Space : "
   df -h --total | grep total | awk '{print $2}'
   ;;
3) echo "Used Space : "
   df -h --total | grep total | awk '{print $3}'
   ;;
4) echo "Available space : "
   df -h --total | grep total | awk '{print $4}'
   ;;
5) echo "Usage Percentage : "
   df -h --total | grep total | awk '{print $5}'
   ;;
```

```
6) echo "Exiting... Thank you!"
   exit 0
   ;;
*) echo "Invalid choice"

esac
done
```

Output –

```
--------------------------------
Disk Space Usage Menu
--------------------------------
1. Display Disk Usage
2. Display Total Space
3. Display Used Space
4. Display Available Space
5. Display Usage Percentage
6. Exit
Enter Choice
2
Total Disk Space :
5.7T
--------------------------------
Disk Space Usage Menu
--------------------------------
1. Display Disk Usage
2. Display Total Space
3. Display Used Space
4. Display Available Space
5. Display Usage Percentage
6. Exit
```

```
Enter Choice
3
Used Space :
39G
--------------------------------
Disk Space Usage Menu
--------------------------------
1. Display Disk Usage
2. Display Total Space
3. Display Used Space
4. Display Available Space
5. Display Usage Percentage
6. Exit
Enter Choice
4
Available space :
5.4T
--------------------------------
Disk Space Usage Menu
--------------------------------
1. Display Disk Usage
2. Display Total Space
```

```
2. Display Total Space
3. Display Used Space
4. Display Available Space
5. Display Usage Percentage
6. Exit
Enter Choice
5
Usage Percentage :
1%
--------------------------------
Disk Space Usage Menu
--------------------------------
1. Display Disk Usage
2. Display Total Space
3. Display Used Space
4. Display Available Space
5. Display Usage Percentage
6. Exit
Enter Choice
7
Invalid choice
--------------------------------
```

```
7
Invalid choice
--------------------------------
Disk Space Usage Menu
--------------------------------
1. Display Disk Usage
2. Display Total Space
3. Display Used Space
4. Display Available Space
5. Display Usage Percentage
6. Exit
Enter Choice
6
Exiting... Thank you!
```