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D1 - 19BCE245
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Practical 7

Write a shell script for implementing directory management.

CODE :

```
1. printf "*** DIRECTORY MANAGEMENT SYSTEM ***\n"
2. choice=0
3. while [ choice != 5 ] ; do
4.     printf "\n MAIN-MENU : \n"
5.     printf "\t[1] Create a new directory\n"
6.     printf "\t[2] Modify an existing directory\n"
7.     printf "\t[3] Navigate into directory\n"
8.     printf "\t[4] Listing directories\n"
9.     printf "\t[5] Exit\n"
10.    printf "    Enter choice : "
11.    read choice
12.
13.    case $choice in
14.        1)
15.            printf "\tEnter directory name : "
16.            read file_name
17.            mkdir $file_name
18.            printf "\tFile named '$file_name' created in
$PWD.\n"
19.            ;;
20.        2)
21.            printf "\tEnter directory name : "
22.            read file_name
23.            printf "\tSUB-MENU : \n"
24.            printf "\t\t[1] Rename directory\n"
25.            printf "\t\t[2] Copy directory to
another\n"
```

```
26.         printf "\t\t[3] Move directory\n"
27.         printf "\t\t[4] Delete directory\n"
28.         printf "\t\t[5] Exit from SUB-MENU\n"
29.         printf "\tEnter chioce : "
30.         read choice
31.         case $choice in
32.             1)
33.                 printf "\tEnter new name : "
34.                 read new_name
35.                 mv $file_name $new_name
36.                 printf "\tFile '$file_name'
renamed to '$new_name'.\n"
37.                 ;;
38.             2)
39.                 printf "\tEnter target directory
path : "
40.                 read target
41.                 cp -R $file_name $target
42.                 printf "\tFile '$file_name'
copied into '$target'.\n"
43.                 ;;
44.             3)
45.                 printf "\tEnter target directory
path : "
46.                 read target
47.                 mkdir $target
48.                 mv $file_name $new_name
49.                 printf "\tFile '$file_name'
moved to '$target'.\n"
50.                 ;;
51.             4)
52.                 printf "\tFile '$file_name' will
be deleted permanently. Are you sure ? \n"
53.                 printf "\t\t[1] YES\n"
54.                 printf "\t\t[2] NO\n"
55.                 printf "\t Enter choice : "
56.                 read choice
57.                 if [ $choice==1 ];
58.                 then
59.                     rmdir $file_name
60.                     printf "\tFile '$file_name'
deleted successfully.\n"
61.                 else
```

```

62.                                     printf "\tDeletion
operation cancelled.\n"
63.                                     fi
64.                                     ;;
65.                                     5)
66.                                     printf "\tEXITED from SUB-MENU.
\n"
67.                                     ;;
68.                                     *)
69.                                     printf "\tInvalid choice :(\n"
70.                                     esac
71.                                     choice=0 #reset choice variable
72.                                     ;;
73.                                     3)
74.                                     printf "\tSUB-MENU : \n"
75.                                     printf "\t\t[1] Go to parent directory\n"
76.                                     printf "\t\t[2] Go to specific directory\n"
77.                                     printf "\t\t[3] Exit from SUB-MENU\n"
78.                                     printf "\tEnter choice : "
79.                                     read choice
80.                                     case $choice in
81.                                         1)
82.                                             cd ..
83.                                             printf "\tWorking directory changed
to '$PWD'.\n"
84.                                             ;;
85.                                         2)
86.                                             printf "\tEnter directory path : "
87.                                             read target
88.                                             cd $target
89.                                             printf "\tWorking directory changed
to '$PWD'.\n"
90.                                             ;;
91.                                         3)
92.                                             printf "\tEXITED from SUB-MENU.\n"
93.                                             ;;
94.                                         *)
95.                                             printf "\tInvalid choice :(\n"
96.                                             esac
97.                                             choice=0 #reset choice variable
98.                                     ;;
99.                                     4)
100.                                     printf "\tSUB-MENU : \n"

```

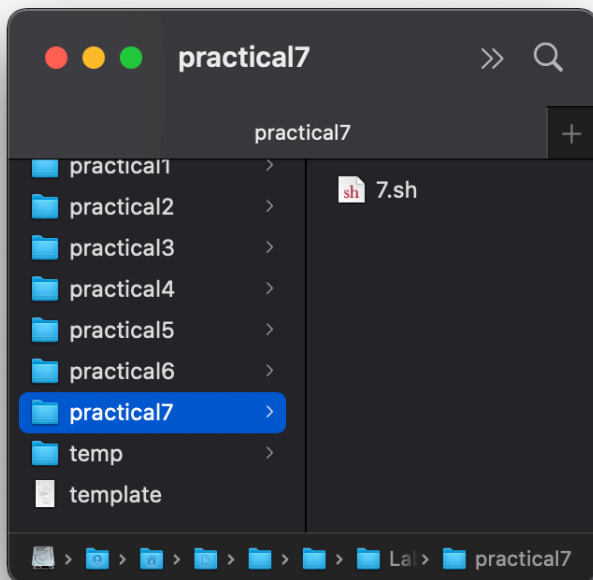
```
101.      printf "\t\t[1] List directories\n"
102.      printf "\t\t[2] List directories with details.
        \n"
103.      printf "\t\t[3] Exit from SUB-MENU\n"
104.      printf "\tEnter choice : "
105.      read choice
106.      case $choice in
107.          1)
108.              printf "\tList of directories : \n"
109.              ls
110.              ;;
111.          2)
112.              printf "\tDetailed list of
        directories : \n"
113.              ls -l
114.              ;;
115.          3)
116.              printf "\tEXITED from SUB-MENU.\n"
117.              ;;
118.          *)
119.              printf "\tInvalid choice :(\n"
120.              esac
121.              choice=0 #reset choice variable
122.          ;;
123.          5)
124.              printf " EXITED."
125.              break
126.          ;;
127.          *)
128.              printf " Invalid choice :(\n"
129.          ;;
130.      esac
131.
132.done
```

OUTPUT:

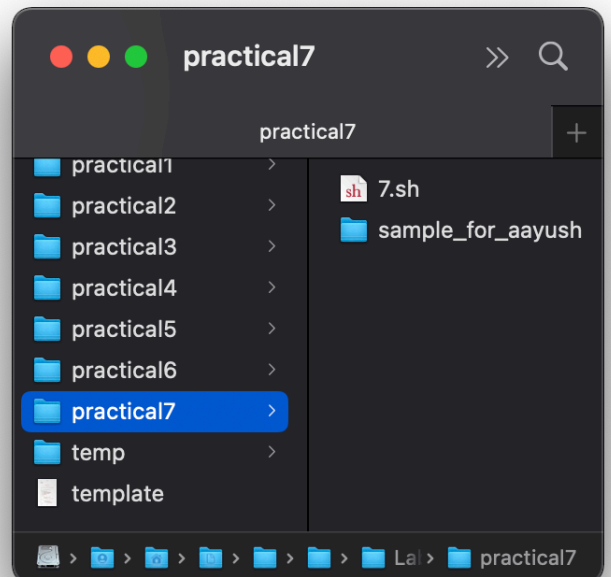
Creating new directory

```
*** DIRECTORY MANAGEMENT SYSTEM ***

MAIN-MENU :
[1] Create a new directory
[2] Modify an existing directory
[3] Navigate into directory
[4] Listing directories
[5] Exit
Enter choice : 1
Enter directory name : sample_for_aayush
File named 'sample_for_aayush' created in /Users/aayush/
Documents/sem 4/Operating System/Lab/practical7.
```



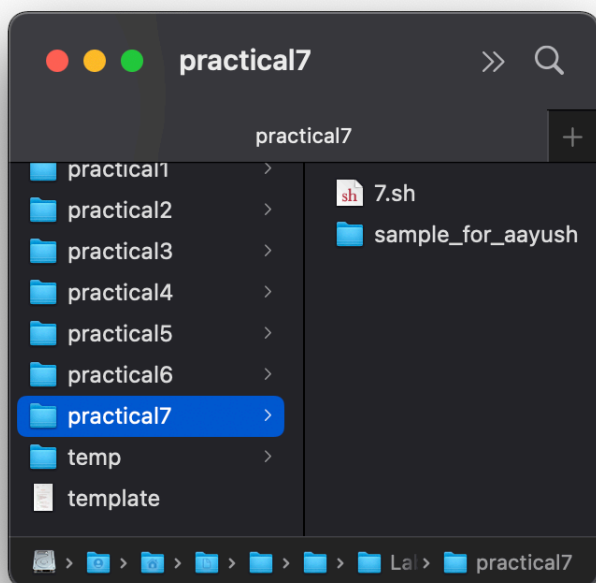
BEFORE



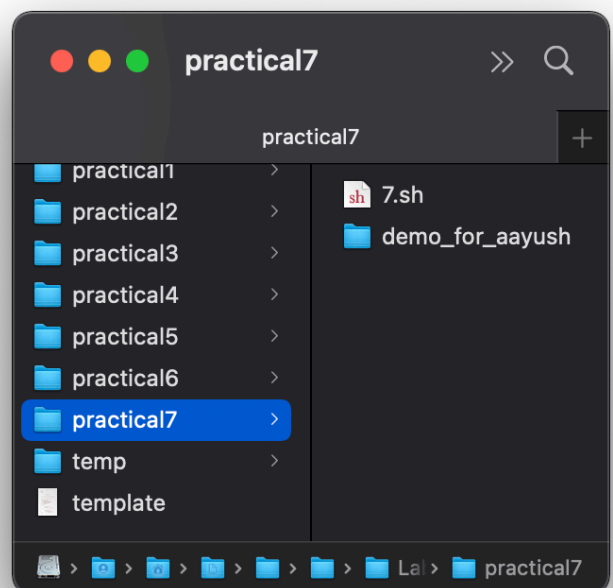
AFTER

Modifying existing directory

```
MAIN-MENU :
  [1] Create a new directory
  [2] Modify an existing directory
  [3] Navigate into directory
  [4] Listing directories
  [5] Exit
Enter choice : 2
Enter directory name : sample_for_aayush
SUB-MENU :
  [1] Rename directory
  [2] Copy directory to another
  [3] Move directory
  [4] Delete directory
  [5] Exit from SUB-MENU
Enter choice : 1
Enter new name : demo_for_aayush
File 'sample_for_aayush' renamed to 'demo_for_aayush'.
```



BEFORE



AFTER

Navigating and Listing directories

```

MAIN-MENU :
  [1] Create a new directory
  [2] Modify an existing directory
  [3] Navigate into directory
  [4] Listing directories
  [5] Exit
Enter choice : 3
SUB-MENU :
  [1] Go to parent directory
  [2] Go to specific directory
  [3] Exit from SUB-MENU
Enter choice : 1
Working directory changed to '/Users/aayush/Documents/sem 4/
Operating System/Lab'.

MAIN-MENU :
  [1] Create a new directory
  [2] Modify an existing directory
  [3] Navigate into directory
  [4] Listing directories
  [5] Exit
Enter choice : 4
SUB-MENU :
  [1] List directories
  [2] List directories with details.
  [3] Exit from SUB-MENU
Enter choice : 1
List of directories :
commands.txt    practical1    practical4    practical7
demo.txt        practical2    practical5    temp
democopy.txt    practical3    practical6    template.pages
  
```

Working Directory :

