

# MISS-EXAM

Name		User-ID	
Date		Subject	UNIX
Marks	50	Duration	3hrs

- Write your name & Date on every answer sheet.
- Write scripts on the answer sheet before logout.
- Write scripts in directories **Q1** & **Q2** for questions **1** & **2** respectively.

**1) Write a C-Shell script in a file ,*devicesSwap.sh* ,that does following tasks. (25M)**

- a) Reads spectre netlist whose name is given through command line.
- b) Generate the new spectre netlist whose name is provided through command line.
- c) New netlist is generated by replacing all PMOS devices with NMOS and NMOS devices with PMOS.

**Use Model of Script :**

```
% deviceSwap.sh      input_org.scs  input_targ.scs
```

**Guidelines:**

- (1) PMOS device = slvtpfet ; NMOS = slvtnfet
- (2) Do not use any bulit-in command.
- (3) For validation of your script,execute below command and visually notice the differences between *input\_org.scs* & *input\_targ.scs*

```
%gvim -d      input_org.scs  input_targ.scs
```

**2) Write a C-Shell script in a file, *depthFinder.sh* , that does following tasks. (25M)**

- a) Takes two directory names as command line arguments.
- b) Identifies maximum depth of each directory and prints on terminal.
- c) Compares if both the directories are exactly similar in their hierarchy of entries.

*For example*, Contents of **dir1** & **dir2** are shown below. When below command is run output should be generated as shown.

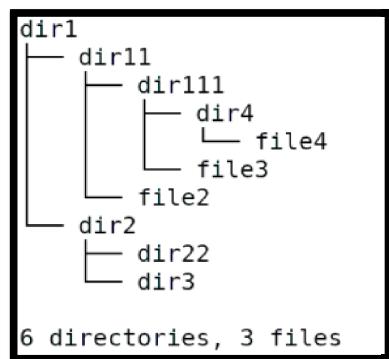
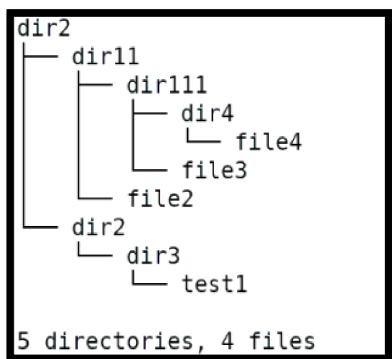
```
% dirCompare.sh ./dir1 ./dir2
```

**Output:**

Maximum depth of dir1 = 4

Maximum depth of dir2 = 4

dir1 & dir2 are not equal.



For example, Contents of **dir3** & **dir4** are shown below. When below command is run output should be generated as shown.

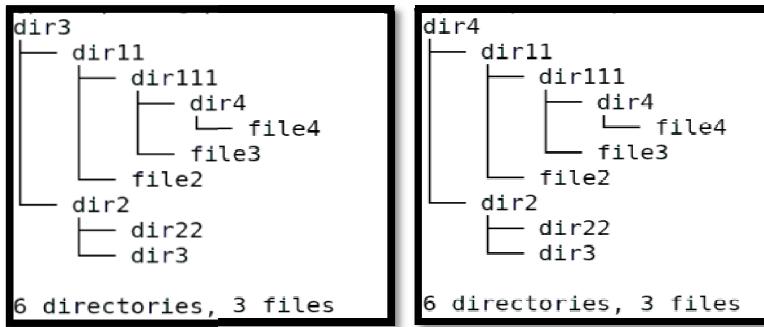
```
% dirCompare.sh ./dir3 ./dir4
```

**Output:**

Maximum depth of dir1 = 4

Maximum depth of dir2 = 4

dir3 & dir4 are equal.



Please note that script should work for any other directories too. The above given structure is just an example for better understanding.

\*\*\*\*\* ALL IS WELL \*\*\*\*\*