SCR2043 OPERATING SYSTEMS

Name : <u>Madina Suraya Binti Zharin</u>

StudentID : A20EC0203

Section : 02

Marks

GROUP 1

Instruction: Please do the following activities in sequence. Once completed, ask your lecturer/instructor to verify your results by putting his / her initial. Please make sure the answer always starts with a low capital letter.

ACTIVITY 1: BASIC LINUX COMMANDS

Write down instructions under the command column.

Each answer is given 1 mark.

You need a terminal window to enter all your commands in sequence.

	Task	Command
1	List the content of the directory	ls
2	Create a directory with your name.	mkdir Madina
3	Change the working directory to the	cd Madina
	directory created in previous Task 2.	
4	To display your current directory now	pwd
	Making 3 subdirectories in your	mkdir SECR
5	current directory with the given name;	mkdir SCSR
	SECR	mkdir SECRH
	SCSR	
	SECRH	
6	List all created directories available.	ls
	Create a directory (Fish) under one	mkdir SECR/Fish
7	of those directories created in Task 5	
	without changing the working	
	directory.	
8	Create a directory (Monkey) under	mkdir SCSR/Monkey
	the other one of those directories	
	created in Task 5 without changing the	
	working directory.	
9	Change working directory to Fish	cd SECR/Fish
10	Create a new directory Turtle under	mkdir/Turtle
	the same directory as Fish.	
11	List all directories and subdirectories	ls -R//
	under the parent of the current	

	working directory (Task 2).	
	From the current working directory,	mkdir/Whale
12	create a new directory Whale under	
	the same directory as Fish	
13	Rename Fish into another new	cd
	name as CatFish.	mv Fish CatFish
14	Remove the directories with no sub-	cd rmdir SECRH
	directory created in task 5.	Indii blem
pi15	Return back to /home directory	cd
16	Complete the file structure of the entire tasks done. (Hint: use tree command) [2 marks]	
Desktop Documents Downloads Madina SCSR Monkey SECR CatFish Turtle Whale Music Pictures Public Templates Videos		

ATIVITY 2: WRITING A PROGRAM / SOURCE CODE

This activity continuous from the previous activity 1. Write the command in the provided boxes. Each answer is given 1 mark.

1. Continuing from task (13) in activity 1, go directly to your Whale directory as your working directory.

```
Command: cd Madina/SECR/Whale
```

2. By using a terminal, open a simple text editor provided in Ubuntu OS by typing the command either pico or nano. Create a file by using a name of fork1.c.

```
Command: nano fork1.c
```

3. Type the following simple source code correctly. Use the menu given by the editor to do your task.



Source: http://www.osix.net/modules/article/?id=641

4. Once you finished typing the source code, save the file using menu WriteOut with control button.

5. Make a copy of the file in the same directory with name fork2.c.

```
Command: cp fork1.c fork2.c
```

6. Make another copy of the fork2.c file into Monkey directory with name fork3.c.

```
Command: cp fork2.c ../../SCSR/Monkey/fork3.c
```

7. Move the fork2.c file in current directory into CatFish directory.

```
Command: mv fork2.c ../CatFish
```

8. View the content of the file fork1.c without using the editor.

```
Command: cat fork1.c
```

ATIVITY 3: COMPILING THE PROGRAM / SOURCE **CODE**

This activity continuous from the previous activity 2.

Write the command in the provided boxes. This activity will show the process of compiling the source code written in C programming language. Each answer is given 1 mark.

1. By using a terminal, change your working directory to Monkey directory. You need to compile the fork3.c file in that directory.

Command: cd

cd Madina/SCSR/Monkey

2. To compile the source code, you need a compiling command for C programming, which is gcc. Compile the fork3.c file using that command.

Command: gcc fork3.c

3. Execute the output file generated in the directory. If you didn't specify the output, a default filename of a . out will be produced

Command: ./a.out

4. Re-compile the fork3.c, and do specify the output filename in the command as fork3result (use -o option).

Command: gcc fork3.c -o fork3result

5. Execute the specified output file generated in previous step.

Command: ./fork3result

6. From current working directory, compile the fork1.c file in Whale directory. Do specify the output filename as forklresult.

Command: gcc fork1.c -o fork1result

7. Execute the output file generated (fork1result.)

Command: ./fork1result

8. Remove the a . out file in related directory.

```
Command:
           cd
           cd Madina/SCSR/Monkey
           rm a.out
```

9. Redraw the final directories and files generated. (Hint: use tree command) [2 marks]

