BRAC
UNIVERSITY

Inspiring Excellence

Department of Computer Science and Engineering

Course Code:CSE321	Credits: 1.5
Course Name: Operating Systems	Semester: Sum'18

Lab 02
Linux shell programming

1. **Topic overview:**
   Students will be introduced with the shell programming of linux. At the end of the lab they should solve some problems using linux shell.

2. **Learning outcome:**
   - Upon successful completion of this Lab the student will be able to;
   - Demonstrate how to use the following Shell commands: cat, grep, ls,more, ps, chmod, finger, ftp, etc.
   - Use the following Shell constructs: test, if then, if then else, if then elif, for, while, until, and c
   - Write moderately complex Shell scripts
   - Make a Shell script executable.

3. **Activity details:**
   - **First hour:** 1. Discussion on shell scripting
     2. Basic syntax of shell script
     2. Variables, conditions
     3. For loops and while loops
     4. Functions , arguments and parameter
     5. Study the provided file for shell scripting

   - **Second and third hour:** solve problems and evaluations

Lab tasks

1. Write a shell program which will output the name of all files to a text file.
2. Write a shell program which will read two numbers from a file and ouput the sum
3. Write a shell program which will calculate the age of a person from birthdate
4. Write a shell program which will count the number of files and directories in a specific directory
5. Write a shell program which will find the highest number among three numbers .