

OS and Network Lab Assignment-3

Objective: Implementation of Variables, Basic Operators and Decision-making statements.

(Note: Write only the objective on the index page of the lab file.)

Q.1) Write a Shell Program that takes two integer numbers as input from the user and computes addition, subtraction, multiplication and division. The result should be displayed to the user.

Q.2) Write a Shell Program to take two **decimal numbers as command-line arguments** and perform addition, subtraction, multiplication and division. The result should be displayed to the user.

Q.3) Write a Shell Program to take one integer number as a command-line argument. The program has to check whether the given number is a prime number or not.

Q.4) Write a shell program to take three integer numbers as command-line arguments. The program compares each number and displays the largest number.

Q.5) Write a Shell program to print the sequence of numbers generated by the Fibonacci function for n numbers. (Fibonacci function $f(n) = A_{n-1} + A_{n-2}$ where $A_0=0$ and $A_1=1$).

Q.6) Write a Shell Program to take inputs from the user for three integer variables, such as x , y and choice. The program performs the following mathematical operations based on the value of the choice variable.

1 for Addition: $x+y$

2 for Subtraction: $x-y$

3 for multiplication: $x*y$

4 for division: x/y

Any other number: print not a valid choice