



UNIVERSITY OF ENGINEERING & MANAGEMENT, KOLKATA
DEPARTMENT OF COMPUTER SCIENCE (B.Tech)
SUBJECT - OPERATING SYSTEM LABORATORY
SUBJECT CODE -PCC-CS591

Assignment - 5

Lab Assignments:

1. Write a shell script to find out whether an integer input through the keyboard is an odd number or an even number.
2. Write a shell script to find out whether any year input through the keyboard is a leap year or not. If no argument is supplied the current year should be assumed.
3. Write a shell script to find the maximum of three numbers provided as command line arguments.
4. Write a shell script to check whether a given number is prime or not.

Home Assignment:

1. Write a shell script to find the factorial value of any integer entered through the keyboard.
2. Write a shell script to generate all combinations of 1, 2 and 3.
3. Write a shell script to print all prime numbers in a given range.
4. Write a shell script to calculate the sum of digits of any number entered through keyboard.
5. Rajesh's basic salary (BASIC) is input through the keyboard. His dearness allowance (DA) is 52% of BASIC. House rent allowance (HRA) is 15% of BASIC. Contributory provident fund is 12% of (BASIC + DA). Write a shell script to calculate his gross salary and take home salary using the following formula:

Gross salary = BASIC + DA + HRA

Take home salary = Gross salary - (BASIC + DA) * 0.12