



Assignment List

Sl. No.	Topic of Assignment	CO	PO and PSO mapping
1.	Understand the function of some Unix commands for general-purpose utilities of the system. And also common file handling Commands.	MCA 392.1	PO ₁ , PO ₂ , PO ₃ , PO ₄ PSO ₁ , PSO ₂
2.	Understand different modes of Vi editor. And also the concept of shell script and how it works.	MCA 392.2	PO ₁ , PO ₂ , PO ₃ , PO ₄ PSO ₁ , PSO ₂
3.	The marks obtained by a student in 5 different subjects are input through the keyboard. The student gets a division as per the following rules: Percentage above or equal to 60 ----- First division Percentage between 50 and 59 -----Second division Percentage between 40 and 49 --Third division Percentage less than 40 ----- Fail Write a shell script to calculate the division obtained by the student.	MCA 392.3	PO ₁ , PO ₂ , PO ₃ , PO ₄ PSO ₁ , PSO ₂
4.	Write a shell script to print the following- 1 2 2 3 3 3	MCA 392.3	PO ₁ , PO ₂ , PO ₃ , PO ₄ PSO ₁ , PSO ₂



	<div>4 4 4 4</div> <div>5 5 5 5 5</div>		
5.	Write a shell script to print all prime numbers between 1 to 100.	MCA 392.3	PO ₁ , PO ₂ , PO ₃ , PO ₄ PSO ₁ , PSO ₂
6.	Write a shell script to find factorial value of any number passed as an argument	MCA 392.3	PO ₁ , PO ₂ , PO ₃ , PO ₄ PSO ₁ , PSO ₂
7.	Write a shell program / script to accept command line arguments. If the number of argument supplied is one, display "one", if it is two, display "two" and if it is three supplied, report it as "Error".	MCA 392.3	PO ₁ , PO ₂ , PO ₃ , PO ₄ PSO ₁ , PSO ₂
8.	Write a shell program / Script to append a line of text to a given text file. The text line will be provided as command line arguments	MCA 392.3	PO ₁ , PO ₂ , PO ₃ , PO ₄ PSO ₁ , PSO ₂
9.	Write a shell program / Script to modify cal command,so that following can be executed in command line: \$cal 9 #display the calender of september,current year \$cal sep #display the calender of september,current year \$cal sep 2002 #display the calender of september,2002	MCA 392.3	PO ₁ , PO ₂ , PO ₃ , PO ₄ PSO ₁ , PSO ₂



	<pre>\$cal #display the calender of current year pagewise \$cal 9 2001 #display the calender of september,2001</pre>		
10.	<p>Write a shell script, which will take a string as input and display in the following format.</p> <p>e.g.: Enter a string: UNIX</p> <p>Output</p> <p>U UN UNI UNIX</p>	MCA 392.3	PO ₁ , PO ₂ , PO ₃ , PO ₄ PSO ₁ , PSO ₂
11.	<p>Two numbers are entered through the keyboard as command line arguments. Write a shell program / script to find the value of one number raised to the power of another.</p>	MCA 392.3	PO ₁ , PO ₂ , PO ₃ , PO ₄ , PO ₅ PSO ₁ , PSO ₂
12.	<p>Write a shell script that deletes all the lines that contains the word “virus”.</p>	MCA 392.3	PO ₁ , PO ₂ , PO ₃ , PO ₄ , PO ₅ PSO ₁ , PSO ₂



13.	Write a shell script to check if a given string is palindrome or not.	MCA 392.3	PO ₁ , PO ₂ , PO ₃ , PO ₄ PSO ₁ , PSO ₂
14.	Write a shell program / Script to check whether two files are same or not. If they are same, the second file will be deleted. File names are given as input.	MCA 392.3	PO ₁ , PO ₂ , PO ₃ , PO ₄ , PO ₅ PSO ₁ , PSO ₂
15.	Write a shell program to count the number of occurrences of a word from a file. Also display the line numbers where it occurs.	MCA 392.4	PO ₁ , PO ₂ , PO ₃ , PO ₄ , PO ₅ PSO ₁ , PSO ₂
16.	Write a shell program / Script so that it will periodically count the number of user logged in .It will send a message if some new user logged in or some logged out. Give the period as command line argument.	MCA 392.4	PO ₁ , PO ₂ , PO ₃ , PO ₄ , PO ₅ PSO ₁ , PSO ₂
17.	Write a shell program / Script which will give a message "Good morning","Good afternoon","Good evening" depending of its time of execution.	MCA 392.4	PO ₁ , PO ₂ , PO ₃ , PO ₄ , PO ₅ PSO ₁ , PSO ₂
18.	Write a shell program / Script to check whether a given user name is valid or not	MCA 392.4	PO ₁ , PO ₂ , PO ₃ , PO ₄ , PO ₅ PSO ₁ , PSO ₂
19.	Write a shell program which will take login name and display the time period the particular user logged in.	MCA 392.4	PO ₁ , PO ₂ , PO ₃ , PO ₄ , PO ₅ PSO ₁ , PSO ₂
20.	Write a shell program using array to sort the numbers entered using any sorting algorithm.	MCA 392.4	PO ₁ , PO ₂ , PO ₃ , PO ₄ , PO ₅ PSO ₁ , PSO ₂



21.	Suppose in a file, employee details are given which contains EmpId, Name, Designation, Basic Salary, DA and HRA. Here DA is 50% of the Basic salary, HRA is 20% of the Basic salary. The Gross salary is the sum of the Basic salary, DA and HRA. Write a script using AWK to calculate the Gross salary of every employee and also calculate the average Gross salary.	MCA 392.5	PO ₁ , PO ₂ , PO ₃ , PO ₄ PSO ₁ , PSO ₂
22.	Process related commands: Back ground process, use of nohup command.	MCA 392.6	PO ₁ , PO ₂ , PO ₃ , PO ₄ PSO ₁ , PSO ₂
	Beyond Syllabus topic: Using system calls, write a program that displays the contents of a file in uppercase. The file name is supplied as argument. How will you find out the ASCII values of the alphabetic characters using another program?		