

DEPARTMENT OF COMPUTER SCIENCE  
ROLLWALA COMPUTER CENTRE  
GUJARAT UNIVERSITY  
M.C.A. -3

ROLL NO : 03  
NAME : Baraiya Dhaval M  
SUBJECT : OPERATING SYSTEM

NO.	TITLE	PAGE NO.	DATE	SIGN
1	Basic salary of a person is input through the keyboard. His dearness allowance is 40% of basic salary and house rent is 20% of basic salary. Write a program to calculate the gross pay.		10/12/2020	
2	The distance between two cities is input through the keyboard. (in km). Write a program to convert this distance into metres, feet, inches and centimeters and display the results.		10/12/2020	
3	The length and breadth of a rectangle and radius of a circle are entered through the keyboard, calculate the perimeter and area of rectangle and area and circumference of the circle.		10/12/2020	
4	If a five digit number is entered through the keyboard, calculate the sum of its digits.		10/12/2020	
5	The file /etc/passwd contains info about all users. Write a program which would receive the logname during execution, obtain information about it from the file and display the information on screen in some appropriate format.		10/12/2020	
6	The script will receive the filename or filename with its full path, the script should obtain information about this file as given by "ls -l" and display it in proper format.		10/12/2020	
7	If cost price and selling price of an item are entered through the keyboard, write a program to determine whether the seller has made profit or loss. Also determine how much profit/loss is made.		10/12/2020	
8	Check whether the entered no. is odd or even.		10/12/2020	
9	Check whether the entered no. is prime or not.		10/12/2020	
10	Check whether the entered year is a leap year or not.		10/12/2020	
11	The script receives two file names as arguments, the script must check whether the files are same or not, if they are similar then delete the second file		10/12/2020	
12	Write a script which will display whether your friend has logged in or not, if he has logged in then send him some message.		10/12/2020	
13	While executing a shell script, either the logname or uid is supplied at the command prompt, write a shell script to		10/12/2020	

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	find out at how many terminals has this user logged in.			
14	Write a shell script to display the date with the format :- 25th October 2005 is a Tuesday.		10/12/2020	
15	Write a shell script to display the appropriate message like : Good Morning / Good Afternoon / Good Evening		10/12/2020	
16	Write a shell script to display the menu driven interface :- 1) list all files of the current directory 2) print the current directory 3) print the date 4) print the users otherwise display "Invalid Option".		10/12/2020	
17	Create a menu driven calculator which asks for two integers and perform basic arithmetic operations.		10/12/2020	
18	Find the factorial of any number.		10/12/2020	
19	Display the fibonacci series upto some number		10/12/2020	
20	Two numbers are entered through the keyboard, find the power, one number raised to another.		10/12/2020	
21	Write a script which has the functionality similar to head and tail commands.		10/12/2020	
22	Write a script which reports name and size of all files in a directory. whose sizes exceed 1000. The filenames should be printed in the descending order of their sizes. The total no. of files must be reported		10/12/2020	
23	A friend of yours has promised to log in a particular time. You want to contact him as soon as he logs in, write a script which checks after every minute whether the		10/12/2020	
24	Print the prime nos. from 1 to 300.		10/12/2020	
25	Program must display all the combinations of 1, 2, and 3.		10/12/2020	
26	Write a script for renaming each file in the directory such that it will have the current shell PID as an extension. The shell script should ensure that the directories do not get renamed.		10/12/2020	
27	A file called wordfile consists of several words. Write a shell script which will receive a list of filenames, the first of which would be wordfile. The shell script should report all occurrences of each word in wordfile in the rest of the files supplied as arguments.		10/12/2020	

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28	Write a shell script which deletes all the lines containing the word "unix" in the files supplied as arguments to it.		10/12/2020	
29	The word "unix" is present in only some of the files supplied as arguments to the shell script. Your script should search each of these files in turn and stop at the first file that it encounters containing the word unix. The filename should be displayed on the screen.		10/12/2020	
30	A shell script receives even number of filenames. Suppose four filenames are supplied then the first file should get copied into second file, the third file should get copied into fourth and so on.. If odd number of filenames are supplied display error message.		10/12/2020	
31	The script displays a list of all files in the current directory to which you have read, write and execute permissions.		10/12/2020	
32	The script receives any number of filenames as arguments. It should check whether every argument supplied is a file or directory. If it is a directory it should be reported. If it is a filename then name of the file as well as the number of lines present in it should be reported.		10/12/2020	

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33	A script will receive any number of filenames as arguments. It should check whether such files already exist. If they do, then it should be reported, if not then check if a subdirectory "mydir" exists or not in the current directory, if it doesn't exist then it should be created and in it the files supplied as arguments should be created.		10/12/2020	
34	Accept the marks of 5 subjects and calculate the percentage and grade. 35. Print armstrong nos. from 1 to 500.		10/12/2020	
35	Print armstrong nos. from 1 to 500.		10/12/2020	
36	Accept the measure (angles) of a triangle and display the type of triangle. (eg. acute, right, obtuse)		10/12/2020	
37	Display all the numbers from 1 to 100 which are divisible by 7		10/12/2020	
38	Find the largest and smallest of 3 different numbers.		10/12/2020	
39	Find HCF and LCM of a given no.		10/12/2020	
40	Display the dates falling on Sundays of the current month.		10/12/2020	

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