LINUX ASSIGNMENT

Total Marks: 20

Submission dead line (05-03-2022)

# Assignment-1

1. Write a shell script to calculate simple interest.
2. Write a shell script to calculate salary from given basic.

Salary = basic + dp + da +hra +ma –pf basic – to be taken as input

dp - 50 % of basic

da - 35 % of (basic + dp) hra - 8 % of (basic + dp) ma - 3 % of (basic + dp) pf - 10% of (basic + dp)

1. Write a shell script to calculate the average of a set of N number.
2. Write a Linux shell script to find the sum of number to given number.

e.g. if entered number is 5 then 1+2+3+4+5

1. Write a shell script to perform like calculator. It should ask for the number and operand from the user.

# Assignment-2

1. Write a shell script to calculate the area of rectangle. It should take the value from the command line.
2. Write a shell script to take two numbers from command line and show result of dividing small number with bigger number. Also note that it should not accept zero or negative number. If user enter zero or negative number then it should prompt to input correct number after displaying proper message.
3. Write a Unix Shell Script which prints the following
   1. Current home directory.
   2. Current user name.
   3. The message "Today is :" with current date in MM/dd/yy format
   4. The message "No of users logged in :" with total no of current logged in users
   5. The message "Terminal :” With you own terminal number
4. Write a shell script to create a command line calculator.

e.g. input : mycal 5 + 5 Result : 10 , input : mycal 5 / 5 result : 1

1. Write a shell script that that takes as command line input a number N and a Word. it then prints the word n times., one word per line

# Assignment-3

1. Write a shell script to find out how many file and directory are their in current directory. Also list the file and directory name separately.
2. Write a shell script to create a menu driven program for adding, deletion or finding a record in a database. Database should have the field like rollno, name, semester and marks of three subjects. Last option of the menu should be to exit the menu.
3. Write a shell scripts to count number of vowels in file ignoring the case.
4. Write a shell program which will work like wc.
5. Write a shell script to checks if name given is file or directory and if it is file  
   then it should display content and if it is a directory then it should display  
   the list.

# Assignment-4

1. Write a unix shell to add records to a file called item.dat The fields being itemcode, qty, sold and rate

item\_code to be generated

qty\_sold should be greater than 0 rate between 100 to 10000

1. Write a Unix shell script which accepts a choice from the user and execute the corresponding option using case structure for above file structure. The format of the menu is

+ -> Addtion of record

! -> Modification of records

- -> Deletion of records s -> Quit

1. Write a shell scripts to generate random number. Allow user to guess 6 times to get the no. Print appropriate messages after each guess.

e.g. Random generated is 10

Users enters 4 message : To small User enters 14 then Messge to big

1. Write a Unix Shell script that takes a login as a command line argument and reports to you when that person logs in.
2. Write shell script to accept marks of of Unix, VB.Net,PHP and calculate the average of marks and display the message as follow :

if Average then display

* + is 70 or above "Distinction"
  + is 60 <= 70 "First Class"
  + is 50 <= 60 "Second Class"
  + is 40 <= 50 "Third Class"
  + otherwise "Fail"