DEMO QUESTIONS

1. An electricity board charges according to following rates.
   For the first 20 units ……………………Rs.80
   For the next 80 units……………….Rs.7.5 per unit
   For the next 100 units ……………….Rs. 8.5 per unit
   For the beyond 200 units…………..Rs.9.5 per unit And Tax 15% in total amount is
   charged to all users. Write a program to read number of units consumed and print out the
   total charge.

2. Write a program to read the radius of the circular plot and calculate its area and print
   "Forest" if area > 5000
   "Sports Complex" if $2000 \leq area \leq 5000$
   "Lawn" if the area is < 2000

3. Write a program to print prime number from 1 to 200.

4. Write a menu driven program to work following cases, take appropriate input whenever
   required.
   1.Reverse a number
   2.Find sum of individual unit
   3.Display all ASCII characters from 0 to 255
   4.Exit

5. Write a program to store n number in an array and sort them in ascending order.

6. WAP to check whether the given number is present in an array or not and if present find
   its position.

7. Write a program to input matrix of order 3X4 and find their transpose.

8. Write a program to input MXN order matrix and find the sum of all diagonal elements.

9. Write a program to find factorial of a given number using recursive function.

10. Write a program to generate Fibonacci series upto nth term using recursive function.

11. Write a recursive program to find power of a given number.

12. Write a program to illustrate call by value and call by reference.

13. Write a program to illustrate returning multiple values from function.

14. Write a program to store n numbers and find their sum using dynamic memory allocation.

15. Write a program to store n numbers and find the largest number among them using dynamic memory allocation.

16. Write a program to input n number in an array and find largest number in an array using user-defined function.

17. Write a user-defined function to find the sum of elements of m*n matrix and finally returns the sum to the calling function.

18. Create a structure for the following data.

Emp_name	Address	Salary	Department	Date of Birth		
				mm	dd	yy

Also write a program to input 100 employee records and display who was born in 1995 and whose department is marketing.

19. Write a program to read the records of n students (roll no, name, per, address) using structures and display the records of those student whose address is Chitwan.

20. In a bank there are n customers with attributes name, account no and balance. Write a Program to find out information of customer who has highest balance in bank.

21. Write a program to input name, address, faculty, program and GPA(in maximum 4.0) of 500 students and store them in 'RESULT.DAT' data file and display the records of those student whose faculty is 'Engineering' and GPA>3.5.

22. Write a program to create a structure for storing movie information, including the title, director, genre, and rating. The program should read information for 50 movies from the user, store it in a file named 'movies.dat,' and then read the information from the file to display the title and genre of movies with a rating above 4.5.

23. Write a program to input name, address, registration no, faculty and academic year of admission in university of 'n' number of students of Pokhara University and append them in data file called 'STUDENT.DAT'. Then display the records of those students by reading the records from 'STUDENT.DAT' data file who got admission in 2016.

24. Write a program to create a structure and read the name, author, and price of 500 books stored in the file named 'library.dat' and print the name and price of books whose price is above 300.