

Lab Questions – 21-32

Complete it in your rough record on or before **19<sup>th</sup> August 2025**.

21. Write a program to electricity bill using switch statement. (Hint: enter present and previous reading and calculate the monthly bill amount based on the following criteria

Consumption Slab (In Units)	Tariff in ₹(Per Unit)
0-50	3.50
51-100	3.95
101-200	6.80
201-250	8.00
0-400	7.35
0-500	7.60
Above 500	8.50

( Check all validations)

22. Write a program to implement simple calculator using switch statements.  
**Using for loop**

23. Write a program to print first n even numbers.  
24. Write a program to find average of a list of numbers  
25. Write a program to print even numbers between two ranges.

**Using do... while() loop**

26. Write a program to find sum of first n natural numbers  
27. Write a program to find average of even numbers from a list of numbers  
28. Write a program to find power of a number

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29. Write a program to find the sum of even digits of a number. Using while loop.  
30. Write a program to find the factorial of a number. Using while loop.

31. Write a program to find the prime numbers up to a limit. Using while loop. (hint: A prime number is a whole number greater than 1 whose only factors are 1 and itself example 2,3,5,7, 11 etc.).
32. Check whether the given number is palindrome or not. (hint: A palindrome number is a number that is same after reverse. For example 121, 34543 etc).