- 1. Write a program in C++ to find the last prime number that occurs before the entered number.
- 2. Write a program in C++ to find the Greatest Common Divisor (GCD) of two numbers.
- 3. Write a program in C++ to find the LCM of any two numbers.
- 4. Write a program in C++ to enter any number and print all factors of the number.
- 5. What will be the output?

```
float f = 10.5;
float p = 2.5;
float* ptr = &f;
(*ptr)++;
*ptr = p;
cout << *ptr << " " << f << " " << p;
```

- 6. Write a program in C++ to find the number and sum of all integers between 100 and 200 which are divisible by 9.
- 7. Write a C++ program to input electricity unit charge and calculate the total electricity bill according to the given condition:

For first 50 units Rs. 0.50/unit For next 100 units Rs. 0.75/unit For next 100 units Rs. 1.20/unit For unit above 250 Rs. 1.50/unit

- 8. Write a C++ function to find the prime elements from an array (if don't get any element then return 0)
- 9. Write a program in C++ to display the number in reverse order.
- 10. Write a program in C++ to calculate the product of the digits of any number.
- 11. Write a C++ program to sort an array of elements using the Selection sort algorithm.
- 12. Write a C++ program to sort an array of elements using the Bubble sort algorithm.
- 13. Write a C++ program to sort an array of elements using the Insertion sort algorithm.
- 14. Write a C++ program that performs a Linear search to find a specific element in an array of integers.

