

Practical Questions

Q1) Write a program in C++ to show how namespaces work. Create 2 variables and functions with same name inside different namespaces and call them from the main method.

Q2) Write a program in C++ to showcase the use of header files. The header file should include a variable, a method, and both should be kept inside a namespace. Access this variable and method from the main method.

Q3) Write a program to print all elements of a 1-d array using pointers in C++. Also, create a 2-d array and print sum of its elements using pointers in C++.

Q4) Write a program to input 2 strings from the user and print the common characters in both the strings.

Q5) Write a program to show inline and recursive function in C++.

Q6) Write a program to create a Student class, containing 2 variables – name and age. Create its 2 objects and initialize them with help of multiple constructors.

Q7) Write a program to demonstrate how destructor can be used to free memory in C++. Assume we have an Employee class containing 2 variables – name (string type) and age (int pointer).

Q8) Write a program to show how to perform a deep copy of an object using copy constructor in C++.

Q9) Write a program to demonstrate how we can use + operator to add age of 2 people using operator overloading.

Q10) Write a program to demonstrate how friend functions can be used to access private data member of a class.

Q11) Assume you have 2 variables with the same name in 2 classes – A and B. Class C inherits both A and B. Write a program to demonstrate how to access variables of A and B class in C class.

Q12) Write a program to show various modes of inheritance in C++. Demonstrate clearly which variables can be accessed and which will throw error in various modes of inheritance.

Q13) Show the order of constructors and destructors during inheritance.

Q14) Demonstrate use of virtual base class in multiple inheritance.

Q15) Write code for function overloading and function overriding.

Q16) Show the use of virtual function in runtime polymorphism.