



Subject : CPP Programming Assignment List

1. Implement a program for simple Arithmetic operation in cpp without using class.
2. Implement a program for factorial with class.
3. Implement a program to display Student Details with class and object concept. Details should contain roll number, name, address and Percentage.
4. Implement program to display 10 cricket player information in Table with object Array concept.
5. Write a C++ program to prompt the user to input 3 integer values and print these values in forward and reversed order, as shown below. Please enter your 3 numbers: 12 45 78

Your numbers forward:

12
45
78

Your numbers reversed:

78
45
12

6. Define a class batsman with the following specifications:

Private members:

bcode	4 digits code number
bname	20 characters
innings, notout, runs	integer type
batavg	it is calculated according to the formula – $\text{batavg} = \frac{\text{runs}}{(\text{innings} - \text{notout})}$
calcavg()	Function to compute batavg

Public members:

readdata()	Function to accept value from bcode, name, innings, notout and invoke the function
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calcavg()

displaydata()	Function to display the data members on the screen.
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7. Calculate volume of cube using parametrized constructor.
8. calculate factorial of a given number using copy constructor.
10. Implement a program to find mean of 10 numbers by using Inline function.
11. Implement a program for Friend function which reverse the given numbers.
12. Implement a program for Fibonacci series by using static function.
13. Implement a program for single Inheritance.
Base class: Spark
Derived class: courses
14. Implement a program for Multiple Inheritance.
Base class: Android
Base class: Iphone
Derived Class : Application
15. Implement a program for Multilevel Inheritance.
Base class: Spark
Intermediate class: Android
Derived class: Apps
16. Implement a program for Hierarchical Inheritance.
Base class: Spark
Derived class: Android
Derived class: Iphone
17. Implement a program for Hybrid Inheritance.
Base class: Spark
Derived class1: Android
Derived class2: Iphone
Derived class3: Application
18. Calculate area of circle and area of rectangle with function overloading.
19. Calculate simple example for function overriding.
20. Implement a simple program for complex number by using Operator overloading concept.
21. Implement a program for Template as class.

22. Implement a program to read a content from a file.
23. Implement a program to copy data from one file to another file.
24. Implement a program to reverse character of given file.
25. Implement a program to count number of character and digits present in a file.