

PRACTICAL EXERCISES FOR BCA-P3 (LAB-3)

C++ OBJECT ORIENTED PROGRAMMING

1. Write a C++ program to calculate average marks scored by a student for 3 subjects.
2. Write a C++ program to find the area and perimeter of a circle and rectangle.
3. Write a C++ program to swap two numbers.
4. Write a C++ program to find largest of three numbers.
5. Write a C++ program to find the maximum number among three numbers.
6. Write a C++ program to generate Fibonacci series.
7. Write a C++ program to perform string manipulation.
8. Find the length of a string. Compare two strings, Concatenate two strings, Reverse a string, Copy a string to another location.
9. Write a C++ program to find quotient and remainder of 2 numbers.
10. Write a C++ program to manipulate the class account using classes and function. A user should be able to perform the following functions. a. Deposit money. b. Withdraw money, c. Calculate the interest d. Check the total balance in his account.
11. Write a C++ program to generate Prime numbers between 1 and 50.
12. Write a C++ program to perform matrix addition and multiplication.
13. Write a C++ program to check whether the given matrix is a sparse matrix or not.
14. Write a C++ program to overload unary minus operator.
15. Write a C++ program to calculate total sales and average sales made by a salesman.
16. Write a C++ program to for construction in Derived Class to produce the report a employee in a company.
17. Write a C++ program to display the student details using pointers.
18. Write a C++ program to convert ASCII value to its equivalent character.
19. Write a C++ program to overload a function to calculate volume of cube, cylinder and rectangular box.
20. Write a C++ program to create a class template to find the maximum of two numbers.

INTERNET PROGRAMMING, JAVA/ActiveX)

1. Converting Temperature in Fahrenheit into Temperature in Celsius.
2. Program for student Mark-List preparation
3. Program for reverse and finding sum of individual digits of a given number
4. Program to generate Fibonacci series
5. Program for finding Factorial of a given number
6. Program for find whether a given number is prime or not.
7. Program for sorting the given numbers in Ascending and Descending order.
8. Program for Matrix Multiplication
9. Program for finding roots of the given quadratic equation
10. Program for finding volume of a sphere (Concept: Class and Object)
11. Program for preparing Employee salary Report (Concept : Array of Objects)
12. Program for implementing stack Operations (Concept : Constructor)
13. Program for checking whether a given number is palindrome or not
(Concept : Abstract Class).
14. Program for Electricity charge calculation (Concept : Implementing Multiple Inheritance).
15. Program to find area of Triangle and Rectangle (Concept : Package , Interface).
16. Program for queue implementation (Concept : Exception Handling; User defined Exception).
17. Program to implement Multi- Threading (Concept: Multi- Threading by extending Thread class).
18. Program for simple Railway Reservation System (Concept : IO Streams: DataInput Stream & DataOutputStream).
19. Program to display graphical components (Concept : Graphics class)
20. Program to display an image (Concept : Pixel Grabber Class : Getting pixels of an image)