



मेडी-केप्स विश्वविद्यालय, इंदौर

Medi-Caps University, Indore

Course Code	Course Name	Hours per Week			Total	
		L	T	P	Hrs.	Credits
CA5CO31	Programming Lab III	0	0	2	2	1

1. Swap two numbers without and with using temporary variable.
2. Find sum of n natural numbers.
3. Copy one string into another, concat and compare two strings and find length of a string.
4. Search an element from an array, find max and min from an array.
5. Find addition, subtraction, multiplication of two matrices.
6. Find addition, subtraction, multiplication and division of two numbers using case switch.
7. Convert one data type to another using wrapper classes.
8. Make a class student having member variables roll\_no and name and member functions getData() and putData() to take the data from user and print on the output screen.
9. Make a class Complex has two member variables real and imag of float type. Make suitable member functions to add, subtract and multiply two Complex objects.
10. Make a class Employee having member variables name and salary and member functions getData() and putData() to take the data from user and print on the output screen.
11. Count number of objects using concept of static.
12. Find area of circle, rectangle and triangle using method overloading.
13. Make a class box having three member variables width, height and depth with constructor overloading and parameterized constructor.
14. Write a program having base class Shape having two member variables width and height, two derived classes rectangle and triangle write suitable member functions to calculate area in rectangle and triangle class.
15. Apply method overriding on class Figure having member variables dim1, dim2, constructor and area() member function, extends two classes Rectangle and Triangle from Figure write constructor and area() function in Rectangle and Triangle class, apply dynamic method dispatch.
16. Write a program on multilevel inheritance.
17. Write a program using super.
18. Write a program explaining the concept of how constructors are called in inheritance.
19. Write a interface Ishape having functions getArea() and getPerimeter(). Write a class circle implements that interface.
20. Write a program to handle the divide by zero exception using exception handling.