MCA Semester-II Subject: Advanced Programming Technique-I [C++]

Practical Laboratory - 4

Topic/Unit: Constructor, Destructor, Copy constructor, Default constructor

Sr.	Write?	Task
1	*	<pre>In the Student class, add following constructors: Student(); //default constructor Student(int rno, char nm[], float cmarks, float cppmarks, float javamarks); //parameterized constructor Also add relevant destructor. In main() function, create three Student objects 'ram', 'rahim' and 'joseph'. Observe behaviour of constructor & destructor.</pre>
2	*	In the Vector class, add following constructors: Vector(); //default constructor. So no elements in Vector Vector(int countOfElements); //Parameterized constructor Also add relevant destructor to release (delete) the dynamically allocated memory. Demonstrate usage of these three special methods.
3	*	In the Matrix class, add following constructors: Matrix (); //default constructor. So no elements in Matrix Matrix (int countOfRows, int countOfColumns); //Parameterized constructor Also add relevant destructor to release (delete) the dynamically allocated memory. Demonstrate usage of these three special methods.
4	*	In the String class, add following constructors: String(); //default constructor. So, null string String(char* s); //Parameterized constructor Also add relevant destructor to release (delete) the dynamically allocated memory. Demonstrate usage of these three special methods.
5		Add default constructor & parameterized constructor to the Complex class.
6		Add default constructor & parameterized constructor to the Point class.
7	*	Add default constructor & parameterized constructor to the Date class.
8	*	Add copy constructor to Student class. Demonstrate usage of the same. Observe program behaviour.
9	*	Add copy constructor to Vector class. Demonstrate usage of the same. Observe program behaviour.
10	*	Add copy constructor to String class. Demonstrate usage of the same. Observe program behaviour.
11		Add copy constructor to Matrix class. Demonstrate usage of the same. Observe program behaviour.