B.Tech CSE 3rd Sem OOPs with C++ (IT-255)

List of Programs

- 1. WAP to implement Call by Value and Call by Reference in C++. Use Call by Reference to swap two integer values.
- 2. WAP to implement a function to calculate the simple interest. Use the option of default value of rate of interest if it is not entered by the user.
- 3. WAP to implement function overloading for a user defined Power function i.e. raise a number m to a power of n. Use this concept for calculating power when m is an integer as well as when m is a double.
- 4. Define a class to represent a complex number and include the real part and the imaginary part as data members. Also include the following functions:
 - a. Assign initial value.
 - b. Display complex number in proper format.
 - c. Add and subtract a real number to complex number.
 - d. Add and subtract an imaginary number from complex number.
- e. Write a main function to test your class and make sure to test all the member functions. Use manually driven input from the user for the same.
- 5. WAP to implement the following types of constructors in a class
 - a. No-argument constructor.
 - b. One-argument constructor.
 - c. Two-argument constructor.
 - d. Copy constructor.
 - e. Dynamic constructor.
- 6. WAP to implement Multilevel Inheritance.
- 7. WAP to implement Multiple Inheritance.
- 8. WAP to implement Hybrid Inheritance.
- 9. WAP to implement Polymorphism using virtual function.
- 10. WAP to implement Operator Overloading using member function and friend function.
- 11. WAP to implement Exception Handling.
- 12. WAP to demonstrate the use of STL (Standard Template Library) in C++.