

(An off-Campus Institution of NITTE (DEEMED TO BE UNIVERSITY), MANGALORE)

**Department of MCA**

02-05-2023

**ENTERPRISE JAVA LAB (22MCA207)**

**ASSIGNMENT - 3**

1. Write a program to demonstrate static variables and methods.
2. Write a program for reuse class.
3. Write a program to give the example for method overriding concepts.
4. Write a program to give the example for ‘super’ keyword.
5. Write a program to create a class named shape. In this class we have three sub classes circle, triangle and square each class has two member function named draw () and erase (). Create these using polymorphism concepts.
6. Write a program to create interface A in this interface we have two method meth1 and meth2. Implements this interface in another class named MyClass.
7. Write a program to give example for multiple inheritance in Java.
8. Write a program to create interface named test. In this interface the member function is square. Implement this interface in arithmetic class. Create one new class called ToTestInt in this class use the object of arithmetic class.
9. Create an outer class with a function display, again create another class inside the outer class named inner with a function called display and call the two functions in the main class.
10. Write a program to give the example for ‘this’ operator. And also use the ‘this’ keyword as return statement.
11. Create a base class Building that stores the number of floors of a building, number of rooms and it’s total footage. Create a derived class House that inherits Building and also stores the number of bedrooms and bathrooms. Demonstrate the working of the classes.
12. In the earlier program, create a second derived class Office that inherits Building and stores the number of telephones and tables. Now demonstrate the working of all three classes.
13. Write a Java program which creates a base class Num and contains an integer number along with a method shownum() which displays the number. Now create a derived class HexNum which inherits Num and overrides shownum() which displays the hexadecimal value of the number. Demonstrate the working of the classes.
14. Create a base class called “vehicle” that stores number of wheels and speed. Create the following derived classes – “car” that inherits “vehicle” and also stores number of passengers. “truck” that inherits “vehicle” and also stores the load limit. Write a main function to create objects of these two derived classes and display all the information about “car” and “truck”. Also compare the speed of these two vehicles - car and truck and display which one is faster.