MODULE 2

1. Write a Java program to facilitate the multilevel inheritance. (Also demonstrate the use of constructor in multilevel inheritance)

2. Demonstrate the use of super keyword in inheritance and try to implement the program which can able to perform following operations…

   a. Use super to call base class variable.

   b. Use super to call base class method.

   c. Use super to call base class constructor.

3. Demonstrate the use of final keyword with respect to

   a. Variable

   b. Method

   c. Class

4. Write a Java Program to demonstrate the concept of hierarchical inheritance. (implement this program with super keyword, final keyword, constructor and method overriding concept)

5. Write a java program to demonstrate dynamic method dispatch and abstract keyword with class and methods.

6. Try to implement the concept of multiple inheritance in Java with the use of interface.

7. write a Java program to demonstrate the hybrid inheritance with example

8. Write a program that demonstrates use of packages & import statements. (Simple addition program).

9. Write java program to check all the available access specifier with package and try to prove that the below given table is true.

Location	Private	No modifier	Protected	Public
Same class	Yes	Yes	Yes	Yes
Same package and also a subclass	No	Yes	Yes	Yes
Same package but not a subclass	No	Yes	Yes	Yes
Different package but a subclass	No	No	Yes	Yes
Different package but not a subclass	No	No	No	Yes

10. Write a java program to create the hierarchy like below figure to perform addition and subtraction operation.