

## **Java Programming Lab Week 5**

Q1. Write a java program to demonstrate the difference amongst constructor, static and non static initializer blocks. Your program should have at least one constructor in super and subclass.

Q2. Write a program to show the usefulness of abstract classes. Inherit an abstract class in another abstract class and implement the methods of the child abstract class in another class and show the calling of the methods defined in abstract classes using dynamic method dispatching. Your abstract classes must have constructors.

Q3. Write a program to demonstrate the use of interfaces. Add the methods and fields in an interface and implement that interface in a class.

Q4. How do you achieve multiple inheritance in java using interfaces? Write a program to show the multiple inheritance implementation using interfaces.

Q5 Demonstrate how an abstract class can inherit an interface and another abstract class.