1. What are the uses of this keyword? Write a Java program to implement the method overloading concept.
2. Why is inheritance needed in Java? How will you implement multiple inheritance using an interface? Explain with a program.
3. What is multithreading? Explain with a program how you will create a thread by implementing a runnable interface and extending the Thread class.
4. What are the exception handling keywords in Java? Write a Java program to illustrate the concept of NullPointerException and NumberFormatException.
5. What is serialization? Write a Java program to write three student information (Roll, Name, Address, College) into file student.txt and display the student information whose address is Ktm.
6. What is a Wrapper class? Explain with a program, how you will use an iterator and a comparator in collection objects?
7. What is the difference between a class and an interface in Java? Create a Java class Time with three attributes: hours, minutes, and seconds. Use appropriate constructors to initialize instance variables. Use methods to display time in HH:MM: SS format, add and subtract two-time objects. Implement the class to add, subtract, and display time objects.
8. Define access modifier. Explain access modifiers in Java with an example.
9. Define thread. Explain the life cycle of a thread.
10. Write a program to sort the names of any five cities in ascending order.