1. a) Write a java program to print prime numbers up to n.

b) Write a java program to create different shapes and fill colors using applet.

1. a) Write a java program for accepting a number from a keyboard and to display the sum of

digits of a given number.

b) Write a java program to initialize the object through

* 1. by reference variable
  2. by method
  3. by constructor

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3) a) Write a java program to print the factorial of given number using while loop.

b) Write a java program to search for an element in a given list of elements using binary

search mechanism.

4) a) Write a java program to sort for an element in a given list of elements using merge sort.

b) Write a java program using String Buffer to perform append, insert, delete and reverse

operations.

5) a) Write a java program to sort the elements of an array in ascending order.

b) Write a java program for abstract class to find areas of different shapes.

6) a) Write a java program to implement class mechanism. Create a class, methods and invoke

them inside main method.

b) Write a java program that identifies key-up, key-down event user entering text in a applet.

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7) a) Write a java program to implement constructor overloading.

b) Write a java program that creates threads by extending Thread class. First thread display

“Good morning” every 1 sec, second thread display “Hello” every 2 secs and the third

thread display “Welcome” every 3 secs.

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8) a) Write a java program to implement method overloading.

b) Write a java program to create User defined package and that import and used in the

defined your package.

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9) a) Write a java program to implement multilevel inheritance.

b) Write a case study on thread synchronization with a sample program, Justify the JAVA

language-level support for synchronizing threads.

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10) a) Write a java program to demonstrate the usages of instance variables, static and local

variables in the “Demo” class.

b) Write a java program that implements Runtime polymorphism.

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11) a) Write a java program by using “this” keyword and “super” keyword.

b) Write a java program illustrating isAlive() and join()

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12) a) Write a java program to implement interfaces. What kind of inheritance can be achieved?

b) Write a java program that describes exception handling mechanism.

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13) a) Write a java program for creation of java built-in exceptions.

b) Write a java program illustrating Daemon Threads.

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14) a) Write a java program for creation of user defined exceptions.

b) Write a java program to print 4 entered numbers in ascending order.

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