



## SECTION-B

2. Explain Java garbage collection mechanism.
3. How packages are created and accessed in Java. Briefly explain the naming convention in packages?
4. Explain the steps involved in creating and executing a java program.
5. Write a Java code that generates custom exception if any value from its command line arguments is negative.
6. Explain the life cycle of applet.

## SECTION-C

7. Write a program in Java to find  $n^{\text{th}}$  prime number where  $n$  is any integer and should be taken as input from the user.
8. Explain the difference between method overriding and method overloading with the help of suitable example.
9. What is multithreading in Java? Explain the inter thread communication with the help of suitable example.

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