

ECAP615

Programming in Java



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Learning Outcomes



After this lecture, you will be able to

- learn the basic concept ServerSocket Class.
- understand the various methods of ServerSocket class.
- implement ServerSocket Class.

ServerSocket Class

- ServerSocket Class is used for providing system-independent implementation of the server-side of a client/server Socket Connection.
- The constructor for ServerSocket throws an exception if it can't listen on the specified port.
- The ServerSocket class can be used to create a server socket.
- This object is used to establish communication with clients.

ServerSocket Class

- It is widely used in the applications of `java.net.ServerSocket` class which is as follows:
- In `java.nio` channel, `ServerSocket` class is used for retrieving a `serverSocket` associated with this channel.
- In `java.rmi.Server`, `ServerSocket` class is used to create a server socket on the specified port (port 0 indicates an anonymous port).

ServerSocket Class

In `javax.net`, Server socket is used widely so as to:

- ✓ return an unbound server socket.
- ✓ return a server socket bound to the specified port.
- ✓ return a server socket bound to the specified port, and uses the specified connection backlog.
- ✓ return a server socket bound to the specified port, with a specified listen backlog and local IP.

Methods used in ServerSocket Class

`accept()`

`Bind(SocketAddress endpoint)`

`getChannel()`

`close()`

Methods used in ServerSocket Class

`getInetAddress()`

`getLocalPort()`

`getLocalSocketAddress()`

`getReuseAddress()`

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That's all for now...