

## Task 1.2

### Java DatagramSocket Class

Description	Method
It binds the DatagramSocket to a specific address and port.	void bind(SocketAddress addr)
It closes the datagram socket.	void close()
It connects the socket to a remote address for the socket.	void connect(InetAddress address, int port)
It disconnects the socket.	void disconnect()
It tests if SO_BROADCAST is enabled.	boolean getBroadcast()
It returns the unique DatagramChannel object associated with the datagram socket.	DatagramChannel getChannel()
It returns the address to where the socket is connected.	InetAddress getInetAddress()
It gets the local address to which the socket is connected.	InetAddress getLocalAddress()
It returns the port number on the local host to which the socket is bound.	int getLocalPort()

It returns the address of the endpoint the socket is bound to.	SocketAddress getLocalSocketAddress()
It returns the port number to which the socket is connected.	int getPort()
It gets the value of the SO_RCVBUF option for this DatagramSocket that is the buffer size used by the platform for input on the DatagramSocket.	int getReceiverBufferSize()
It returns the status of socket i.e. closed or not.	boolean isClosed()
It returns the connection state of the socket.	boolean isConnected()
It sends the datagram packet from the socket.	void send(DatagramPacket p)
It receives the datagram packet from the socket.	void receive(DatagramPacket p)

## Java DatagramPacket Class Methods

Description	Method
It returns the IP address of the machine to which the datagram is being sent or from which the datagram was received.	1) InetAddress getAddress()
It returns the data buffer.	byte[] getData()
It returns the length of the data to be sent or the length of the data received.	int getLength()
It returns the offset of the data to be sent or the offset of the data received.	int getOffset()
It returns the port number on the remote host to which the datagram is being sent or from which the datagram was received.	int getPort()
It gets the SocketAddress (IP address + port number) of the remote host that the packet is being sent to or is coming from.	SocketAddress getSocketAddress()
It sets the IP address of the machine to which the datagram is being sent.	void setAddress(InetAddress iaddr)
It sets the data buffer for the packet.	void setData(byte[] buff)
It sets the length of the packet.	void setLength(int length)
It sets the port number on the remote host to which the datagram is being sent.	void setPort(int iport)
It sets the SocketAddress (IP address + port number) of the remote host to which the datagram is being sent.	void setSocketAddress(SocketAddress addr)

## Task 1.3

### Java Socket Class

It .The Socket class acts as an endpoint for communication between two machines implements client sockets

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## Task 1.4

**InetAddress** class provides methods to get the IP address of any hostname.