```
import java.io.IOException;
import java.net.DatagramPacket;
import java.net.DatagramSocket;
import java.net.InetAddress;
import java.util.Scanner;
public class udpBaseClient_2
       public static void main(String args[]) throws IOException
              Scanner sc = new Scanner(System.in);
              // Step 1:Create the socket object for
              // carrying the data.
              DatagramSocket ds = new DatagramSocket();
              InetAddress ip = InetAddress.getLocalHost();
              byte buf[] = null;
              // loop while user not enters "bye"
              while (true)
              {
                      String inp = sc.nextLine();
                   // convert the String input into the byte array.
                      buf = inp.getBytes();
                      // Step 2 : Create the datagramPacket for sending
                      // the data.
                      DatagramPacket DpSend =
                             new DatagramPacket(buf, buf.length, ip, 1234);
                      // Step 3 : invoke the send call to actually send
                      // the data.
                      ds.send(DpSend);
                      // break the loop if user enters "bye"
                      if (inp.equals("bye"))
                             break;
              }}
```

```
import java.io.IdException;
import java.io.IdException;
import java.net.Datagrampacket;
import java.net.Datagrampacket;
import java.net.InetAddress;
import java.net.InetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.inetAddress.ine
```

```
import java.io.IOException;
import java.net.DatagramPacket;
import java.net.DatagramSocket;
import java.net.InetAddress;
import java.net.SocketException;
public class udpBaseServer_2
       public static void main(String[] args) throws IOException
              // Step 1 : Create a socket to listen at port 1234
               DatagramSocket ds = new DatagramSocket(1234);
               byte[] receive = new byte[65535];
               DatagramPacket DpReceive = null;
               while (true)
                      // Step 2 : create a DatgramPacket to receive the data.
                      DpReceive = new DatagramPacket(receive, receive.length);
                      // Step 3 : revieve the data in byte buffer.
                      ds.receive(DpReceive);
                      System.out.println("Client:-" + data(receive));
                      // Exit the server if the client sends "bye"
                      if (data(receive).toString().equals("bye"))
                      {
                              System.out.println("Client sent bye.....EXITING");
                             break;
                      }
                      // Clear the buffer after every message.
                      receive = new byte[65535];
               }
       }
       // A utility method to convert the byte array
       // data into a string representation.
       public static StringBuilder data(byte[] a)
       {
              if (a == null)
                      return null;
               StringBuilder ret = new StringBuilder();
               int i = 0;
               while (a[i] != 0)
                      ret.append((char) a[i]);
                      i++;
              return ret;
```

```
}
                     // Implementation using DatagramSocket
import java.io.IOException;
import java.net.DatagramPacket;
import java.net.DatagramSocket;
import java.net.InetAddress;
import java.net.SocketException;
                     public class udpBaseServer_2
                            public static void main(String[] args) throws IOException
                                  // Step 1 : Create a socket to listen at port 1234
DatagramSocket ds = new DatagramSocket(1234);
byte[] receive = new byte[65535];
                                  DatagramPacket DpReceive = null; while (true)
Q2.
                                         // Step 2 : create a DatgramPacket to receive the data.
DpReceive = new DatagramPacket(receive, receive.length);
Write a
program
                                         // Step 3 : revieve the data in byte buffer.
ds.receive(DpReceive);
to
demonstr
                                        System.out.println("Client; -" + data(receive));
ate status
                                             Exit the server if the client sends "bye" (data(receive).toString().equals("bye"))
of key on
Applet
                                               System.out.println("Client sent bye....EXITING");
window
such as
                                        // Clear the buffer after every message.
receive = new byte[65535];
KeyPress
ed,
KeyRele
                         // A utility method to convert the byte array
// data into a string representation.
public static StringBuilder data(byte[] a)
ased,
KeyUp,
                               if (a == null)
    return null;
StringBuilder ret = new StringBuilder();
while (a[i] != 0)
KeyDow
n?
                                      ret.append((char) a[i]);
i++;
```

}

showStatus("Key Pressed")
repaint();

public void paint(Graphics g

g.drawString(msg, 10, 10)

```
import java.awt.*;
import java.applet.*;
import java.applet.*;
import java.awt.event.*;
public class KeyEventDemo extends Applet implements KeyListener

String msg = "";

public void init()
{
    addKeyListener(this);
}

public void keyReleased(KeyEvent k)
{
    showStatus("Key Released");
    repaint();
}

public void keyTyped(KeyEvent k)
{
    showStatus("Key Typed");
    repaint();
}

public void keyPressed(KeyEvent k)
{
    showStatus("Key Pressed");
    repaint();
}

public void paint(Graphics g)
{
    g.drawString(msg. 10, 10);
}
}
```

Q3. Write a java program to create a file with your name, save it in the desktop, write some data on the file and then read and print that data into the console

// To read the write content on the File......

FileWriter myWriter = new FileWriter("file name")

System.out.println("Enter Content");
Scanner input = new Scanner(System.in);
String str = input.nextLine();
myWriter.write(str);
myWriter.close();

// To show the output of the file

```
System.out.println("The content of the files are as follows");
String line = null;
FileReader fileReader = new FileReader("file name");

BufferedReader bufferedReader = new BufferedReader(fileReader while((line = bufferedReader.readLine()) != null)
{
System.out.println(line);
}
bufferedReader.close();

}
else {
```

```
else {
    System.out.println("File already exists.");
    }
}
catch (IOException e) {
    System.out.println("An error occurred.");
    e.printStackTrace();
```

```
import java.io.*;
import java.io.IOException;
import java.util.*;
     public class FileOrg ({
   public static void main(String[] args) {
          System.out.println("File created with the name " + myObj.getName());
               // To read the write content on the File.....
67890123456789012345678901234567
               FileWriter myWriter = new FileWriter("file name");
               System.out.println("Enter Content");
Scanner input = new Scanner(System.in);
String str = input.nextLine();
myWriter.write(str);
myWriter.close();
               myWriter.close();
               // To show the output of the file.
               System.out.println("The content of the files are as follows");
               String line = null
               FileReader fileReader = new FileReader("file name");
               BufferedReader bufferedReader = new BufferedReader(fileReader);
               while((line = bufferedReader.readLine()) != null)
                    System.out.println(line);
               bufferedReader.close();
            else {
               System.out.println("File already exists.");
          catch (IOException e) {
   System.out.println("An error occurred.");
   e.printStackTrace();
8
          }
```