

GRAPHIC ERA HILL UNIVERSITY

Department of Computer Application

JAVA Practical Exam

AMIT RAWAT

MCA Sec-C

SEM-2

ROLL NO: 2001024

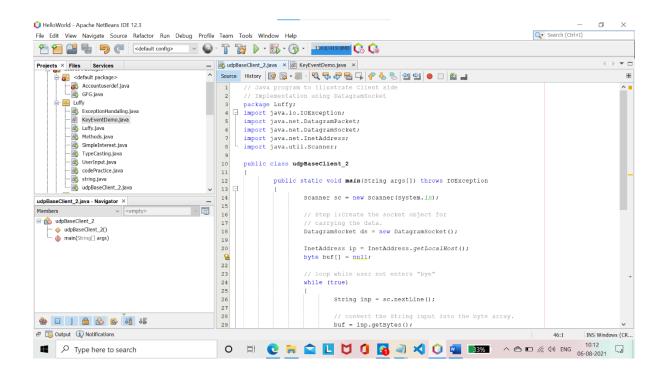
STUDENT ID: 20711159

Que 1 = Write a java program for Client Server communication using UDP Datagram Socket Programming.

```
Ans = CLIENT SIDE IMPLEMENTATION
package Luffy;
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;
}
```



SERVER SIDE IMPLEMENTATION

```
Source Code:
package Luffy;
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
             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;
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package Luffy;
import java.net.DatagramPacket;
import java.net.DatagramPacket;
import java.net.DatagramPacket;
import java.net.DatagramPacket;
import java.net.DatagramPacket;
import java.net.SocketException;

public class udpBaseSav...

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    Luffy
       ExceptionHandaling.java
FileOrg.java
KeyEventDemo.java
       Luffy.java

Methods.java

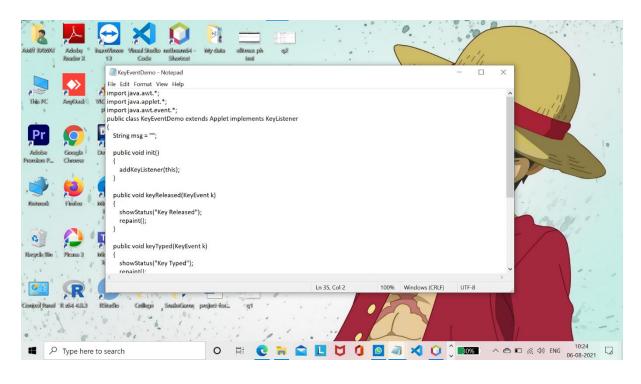
SimpleInterest.java

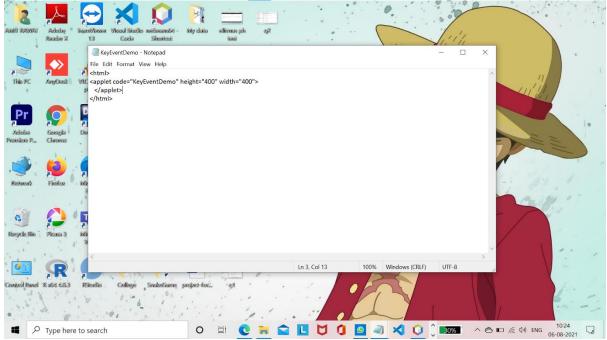
TypeCasting.java
        UserInput.java
                                                         public static void main(String[] args) throws IOException
        string.java
                                                                // Step 1 : Create a socket to listen at port 1234
DatagramSocket ds = new DatagramSocket(1234);
byte[] receive = new byte[65535];
       udpBaseClient_2.java
udpBaseServer_2.java
udpBaseServer_2.java - Navigator ×
                                                                DatagramPacket DpReceive = null;
⊞-  udpBaseServer_2
                                                                        DpReceive = new DatagramPacket(receive, receive.length);
                                                                         // Step 3 : revieve the data in byte buffer.
                                                                        ds.receive(DpReceive);
                                                                        System.out.println("Client:-" + data(receive));
if (data(receive).toString().equals("bye"))
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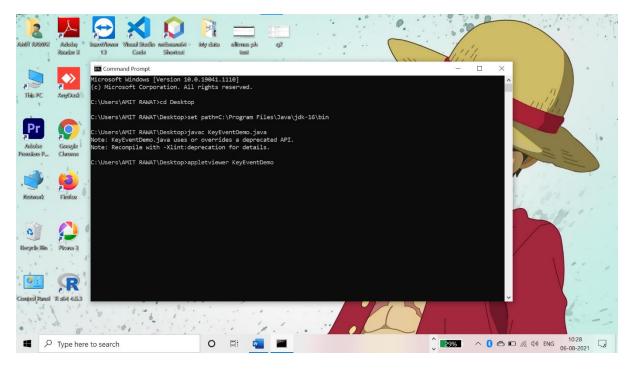
Que 2 = Write a servlet program to create a login page.

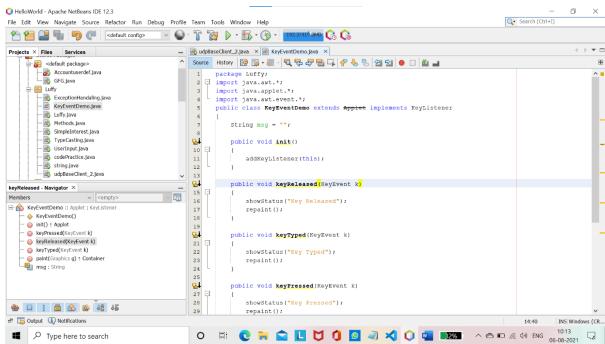
```
Ans =
package Luffy;
import java.awt.*;
import java.applet.*;
import java.awt.event.*;
public class KeyEventDemo extends Applet implements
KeyListener
  String msg = "";
  public void init()
    addKeyListener(this);
  }
  public void keyReleased(KeyEvent k)
     showStatus("Key Released");
    repaint();
  }
  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);
}
```









Que 3 = 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.

```
Ans = package Luffy;
import java.io.*;
import java.io.IOException;
import java.util.*;
public class FileOrg {
 public static void main(String[] args) {
  try {
    File myObj = new File("filename");
   if (myObj.createNewFile())
    {
     System.out.println("File created with the name " +
myObj.getName());
     // 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 {
    System.out.println("File already exists.");
}

catch (IOException e) {
    System.out.println("An error occurred.");
    e.printStackTrace();
}
}

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