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| --- |
| Import java.io.DataInputStream; |
|  | import java.io.DataOutputStream; |
|  | import java.io.IOException; |
|  | import java.net.Socket; |
|  | import java.net.UnknownHostException; |
|  | import java.util.Scanner; |
|  |  |
|  |  |
|  | public class Client { |
|  |  |
|  | public static void main(String arg[]) throws UnknownHostException, IOException{ |
|  |  |
|  | try{ |
|  |  |
|  | boolean isContinue =true; |
|  |  |
|  | while(isContinue) |
|  | { |
|  | //Asking user for operation Selection |
|  | System.out.println("Which operation do you want to perform ? Please enter index number: "); |
|  | boolean isValid =false; |
|  | Scanner scanner = new Scanner(System.in); |
|  | String selected= null; |
|  | while(!isValid){ |
|  |  |
|  | System.out.println("1. Addition"); |
|  | System.out.println("2. Subtraction"); |
|  | System.out.println("3. Multiplication"); |
|  | System.out.println("4. Division"); |
|  |  |
|  | int selection = scanner.nextInt(); |
|  |  |
|  | switch(selection){ |
|  |  |
|  | case 1 : |
|  | selected ="add"; |
|  | isValid=true; |
|  | break; |
|  | case 2 : |
|  | selected ="sub"; |
|  | isValid=true; |
|  | break; |
|  | case 3 : |
|  | selected ="mul"; |
|  | isValid=true; |
|  | break; |
|  | case 4 : |
|  | selected ="div"; |
|  | isValid=true; |
|  | break; |
|  | default : |
|  | System.out.println("Invalid choice : "); |
|  | isValid=false; |
|  | break; |
|  | } |
|  | } |
|  |  |
|  | //Asking two parameters for selected operations |
|  | System.out.println("Please enter two parameters for this operation:"); |
|  | System.out.println("Param 1 :"); |
|  | int first = scanner.nextInt(); |
|  | scanner.nextLine(); |
|  | System.out.println("Param 2 :"); |
|  | int second = scanner.nextInt(); |
|  |  |
|  | //Connecting with Naming Server. |
|  | Socket opSocket = new Socket("134.154.76.104", 8694); |
|  | DataOutputStream opToClient = new DataOutputStream(opSocket.getOutputStream()); |
|  | opToClient.writeInt(first); |
|  | opToClient.writeInt(second); |
|  | opToClient.writeUTF(selected); |
|  |  |
|  | //Getting ans from Naming Server |
|  | DataInputStream opInStream = new DataInputStream(opSocket.getInputStream()); |
|  | String ans = opInStream.readUTF(); |
|  |  |
|  | //Printing Answer and asking for continuation |
|  | System.out.println(ans); |
|  | System.out.println("Enter 1 if you want to continue or 0 to exit :"); |
|  | int operation = scanner.nextInt(); |
|  | if(operation==0) |
|  | isContinue=false; |
|  | } |
|  | System.out.println("Exit performed successfully."); |
|  | } |
|  | catch(Exception ex){ |
|  | ex.printStackTrace(); |
|  | } |
|  | finally{ |
|  | //opSocket.close(); |
|  | } |
|  | } |
|  |  |
|  | } |