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package com.bong.temp_client;

import ...

public class MainActivity extends AppCompatActivity {
    Socket socket;
    OutputStream os;
    InputStream is;
    BufferedReader in ;
    PrintWriter out;

    ConnectThread thread;

    Button btnConnect,btnTemp, btnOn, btnOff, btnDisconnect;
    EditText edServerIP;
    TextView tvMessage;

    Handler handler = new Handler();

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout, activity_main);
        tvMessage = (TextView) findViewById(R.id, tvMessage);
        edServerIP = (EditText) findViewById(R.id, edServerIP);
        btnConnect = (Button) findViewById(R.id, btnConnect);
        btnDisconnect = (Button) findViewById(R.id, btnDisconnect);
        btnTemp = (Button) findViewById(R.id, btnTemp);
        btnOn = (Button) findViewById(R.id, btnOn);
        btnOff = (Button) findViewById(R.id, btnOff);
        btnConnect.setEnabled(true);
        btnOn.setEnabled(false);
        btnOff.setEnabled(false);
        btnDisconnect.setEnabled(false);
        btnConnect.setOnClickListener(new View.OnClickListener() {
            public void onClick(View v) {
                String addr = edServerIP.getText().toString().trim();
                thread = new ConnectThread(addr);
                thread.start();
                btnConnect.setEnabled(false);
                btnDisconnect.setEnabled(true);
                btnTemp.setEnabled(true);
                btnOn.setEnabled(true);
                btnOff.setEnabled(false);
            }
        });
        btnDisconnect.setOnClickListener(new View.OnClickListener() {
            public void onClick(View v) {
                thread.setStop();
                tvMessage.setText("현재 온도 : ");
                btnConnect.setEnabled(true);
                btnDisconnect.setEnabled(false);
                btnTemp.setEnabled(false);
                btnOn.setEnabled(false);
                btnOff.setEnabled(false);
            }
        });
    }
}

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btnTemp.setOnClickListener(new View.OnClickListener() {
    public void onClick(View v) {
        new Thread(){
            public void run(){
                try {
                    out.println("temp");
                    out.flush();
                    thread.readServer();
                }catch (Exception e){
                    e.printStackTrace();
                }
            }
        }.start();
    }
});

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btnOn.setOnClickListener(new View.OnClickListener() {
    public void onClick(View v) {
        btnOn.setEnabled(false);
        btnOff.setEnabled(true);
        new Thread(){
            public void run(){
                try {
                    out.println("on");
                    out.flush();
                    thread.readServer();
                }catch (Exception e){
                    e.printStackTrace();
                }
            }
        }.start();
    }
});

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btnOff.setOnClickListener(new View.OnClickListener() {
    public void onClick(View v) {
        btnOn.setEnabled(true);
        btnOff.setEnabled(false);
        new Thread(){
            public void run(){
                try {
                    out.println("off");
                    out.flush();
                    thread.readServer();
                }catch (Exception e){
                    e.printStackTrace();
                }
            }
        }.start();
    }
});
}

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class ConnectThread extends Thread {
    String hostname;
    public ConnectThread(String addr) {
        hostname = addr;
    }

    public void run() {
        try {
            int port = 9000;
            socket = new Socket(hostname, port);
            os = socket.getOutputStream();
            is = socket.getInputStream();
            in = new BufferedReader(new InputStreamReader(is));
            out = new PrintWriter(os);
        } catch (Exception ex) {
            ex.printStackTrace();
            try {
                socket.close();
            } catch (Exception e) {
                e.printStackTrace();
            }
        }
    }

    public void readServer() {
        try {
            String msg1 = in.readLine();
            handler.post(new Runnable() {
                @Override
                public void run() {
                    if (msg1.equals("on")) {
                        tvMessage.setText("선풍기 켜짐");
                    } else if (msg1.equals("off")) {
                        tvMessage.setText("선풍기 꺼짐");
                    } else {
                        tvMessage.setText("현재온도 : " + msg1);
                    }
                }
            });
        } catch (IOException e) {
            e.printStackTrace();
        }
    }

    public void setStop() {
        if(socket.isConnected()) {
            try {
                socket.close();
            } catch (Exception e) {
                e.printStackTrace();
            }
        }
    }
}
}
}

```

