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Advanced software development

Homework Assignment 3

Part 1 :

1. Analyze the below solution and check how it violates the SOLID principle. (At least two)

2. Check if your solution 100% applies the SOLID principle and fix it if any.

1.1: the point violates the SOLID principle a new class must be created and used to communicate, and the communication and linking functions must be transferred between the two classes

1.2: Define variables once, and it is not necessary to give a value null

private static Connection httpConnection = null;

private static Connection sshConnection = null;

private static Connection telnetConnection = null;

private static Connection scpConnection = null;

private static Connection ftpConnection = null;

The better

public static final String TELNET = "TELNET";

public static final String SSH = "SSH";

public static final String HTTP = "HTTP";

public static final String SCP = "SCP";

public static final String FTP = "FTP";

1.3: Doing the type function to get the connection type if in HTTP, SSH, TELNET ... order not to repeat the connection type checking condition

boolean releaseByParameter

the solution :

public void setType(String type){

this.type = type;

}

public String getType(){

return type;

}