

UNIVERSITY OF PERADENIYA
Faculty of Engineering
Quiz 3 – May 2017
CO324: Network and Web Application Design
Ninety Minutes

INSTRUCTIONS

- Extract the Netbeans project and each question part by completing the code in these files. *Do not rename or delete* any files or directories!

Once you have finished, create a zip of the *entire project* using the “Export project” facility. Upload the zip to the quiz 1 submission link on the course page.

- Submissions containing build errors get zero marks. No code enclosed within comments will be checked!

- You may bring any resources in printed and electronic form and access resources on FEELS, including your lab and assignment submissions.

JavaSE and Servlet reference documentation is provided at <https://tesla.ce.pdn.ac.lk/javadocs/> and <https://tesla.ce.pdn.ac.lk/tomcatdoc/> respectively.

- Internet access is *NOT permitted*. Attempts to communicate with anyone during the exam using chat, file exchange, or other means is an *exam offence*!
- *Save your work frequently* as power, computers or network equipment could fail! In event of such failure, you will be given a maximum of 30 minutes of extra time.

1. Given below is a description of how an email is sent using the simple mail transfer protocol (SMTP.)

1. Type `HELO ce.pdn.ac.lk` and ENTER.
2. Type `MAIL FROM:<sender@ce.pdn.ac.lk>` and ENTER. If the sender is not permitted to send mail, the SMTP server returns an error.
3. Type `RCPT TO:<recipient@ce.pdn.ac.lk>` and press ENTER. If the recipient is not a valid recipient or the server does not accept mail for this domain, the SMTP server returns an error.
4. Type `DATA` and ENTER. Type `SUBJECT:<Mail subject>` and ENTER. Type a `.` (full-stop), and then ENTER again.

You can test this process manually using the following:

```
nc -v smtp.ce.pdn.ac.lk 25
```

Place the answers to parts b and c as comments at the bottom of the Java source code.

- (a) Write a class `Mail.java` that takes three command-line arguments: sender address, recipient address, and subject, and sends the mail via `smtp.ce.pdn.ac.lk`. [8]
- (b) What happens if the sender address' domain is not `ce.pdn.ac.lk`? [1]
- (c) What happens if the recipient address' domain is not `ce.pdn.ac.lk`? [1]