

IBM Inter-University Programming Contest 2012 Training



IBM Inter-University **Programming Contest** **2012**

February 11, 2012 (Saturday)
Cliftons, Hong Kong



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Chapter 0: Contest Briefing



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Agenda

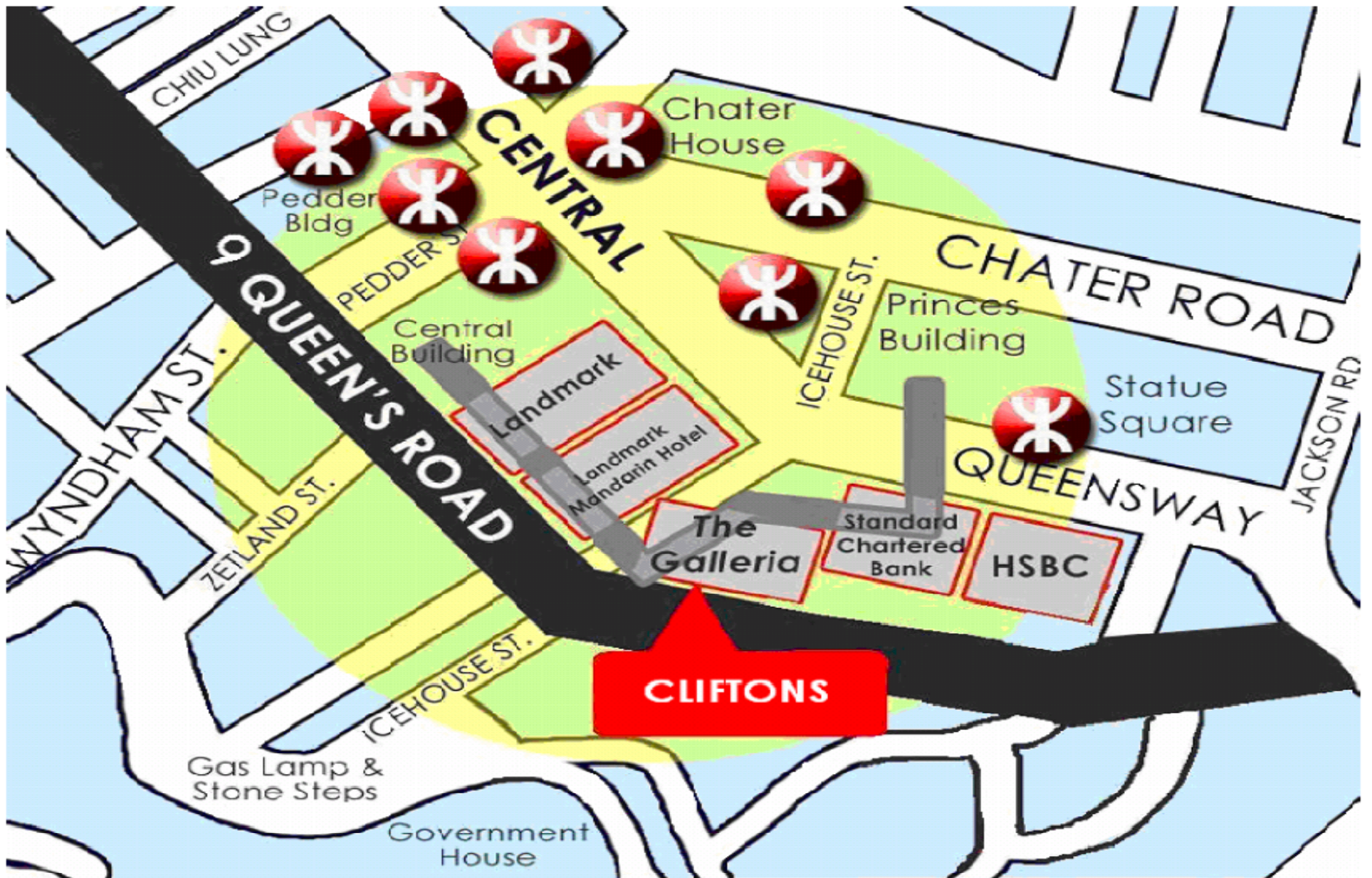
- Contest Rundown
- Overview of the contest technical scope
- Description on the contest PC setup and contest workflow
- Overview of the contest questions
- How to answer the questions

Contest Rundown

Date : Feb 11, 2012 (Saturday)

Time : 2:00 p.m. - 5:30 p.m.
(registration starts at 1:30 p.m.)

**Venue : Cliftons Central Training Centre, Level 33, 9 Queen's
Road Central, Hong Kong**



Clifons Ltd

Level 33, 9 Queens Road Central, Central, Hong Kong

T: 2159 9999

F: 2159 9898



Contest Rundown

1:30 - 2:00pm	Registration
2:00 - 2:15pm	Welcome Speech
2:15 – 4:15pm	Competition takes place
4:15 – 4:45pm	Marking
4:45 – 5:30pm	Award Presentation

Prize

Champions	<ul style="list-style-type: none"> ▪ HK\$30,000# Cash Award ▪ Champion Trophy ▪ Three-month Summer Internship Program at IBM@
First runner ups	<ul style="list-style-type: none"> ▪ HK\$15,000# Cash Award ▪ 1st runner up Trophy
Second runner ups	<ul style="list-style-type: none"> ▪ HK\$ 9,000# Cash Award ▪ 2nd runner up Trophy
All Contestants	<ul style="list-style-type: none"> ▪ IBM Trendy Backpack ▪ IBM Participation Certificate
The Champion University*	<ul style="list-style-type: none"> ▪ Champion Trophy

#The Cash Award is for the whole team.

* The university with the most points of all their teams.

@ Winners must be Hong Kong resident or have a "No Objection Letter" (NOL) issued by immigration Department.

Contest Rules (1)

- The contest has a duration of 2 hours.
- One PC and one terminal will be provided for each team.
- A set of questions will be given to each team to be completed within 2 hours.
- The contest is an open book contest. Contestants could bring in their reference books for the contest.
- Internet Browsing NOT allowed.
- Inter-Team Communication NOT allowed.
- ONLY Intra-Team Communication allowed.
- All the questions and related schema are provided to the students at the beginning of the contest. Question sheet is provided in hardcopy form.
- Once a team completes a question, the result is submitted to the judge. A time is recorded as the submission time. Then the judge will evaluate the submitted answer. In case the validation fails, the team will be notified and feedback will be provided to the team.

Contest Rules (2)

- For programming questions only, each team can have **THREE chances** to submit the answer of each question:
 - Each time the team submits an answer, the judge records the submission time and runs a stored procedure to check the answer. If the answer is correct, they will be awarded points for the question. If the answer is incorrect, the contest system will send the answer back to the team and the team can then re-submit again up to three times.
 - Full points will be provided if the answer is correct.
 - Partial points might be given on programming questions.
 - For each question, the highest point obtained will be recorded as its final point.
- After the contest is over, the team which gets the most points wins. If several teams get the same number of points, the one with the earliest last submission time wins.
- The decisions of the judges will be final.
- IBM reserves the right to publish the photographs and/or names of all or any prize winners in any of its promotional materials and/or advertisements as it sees fit.

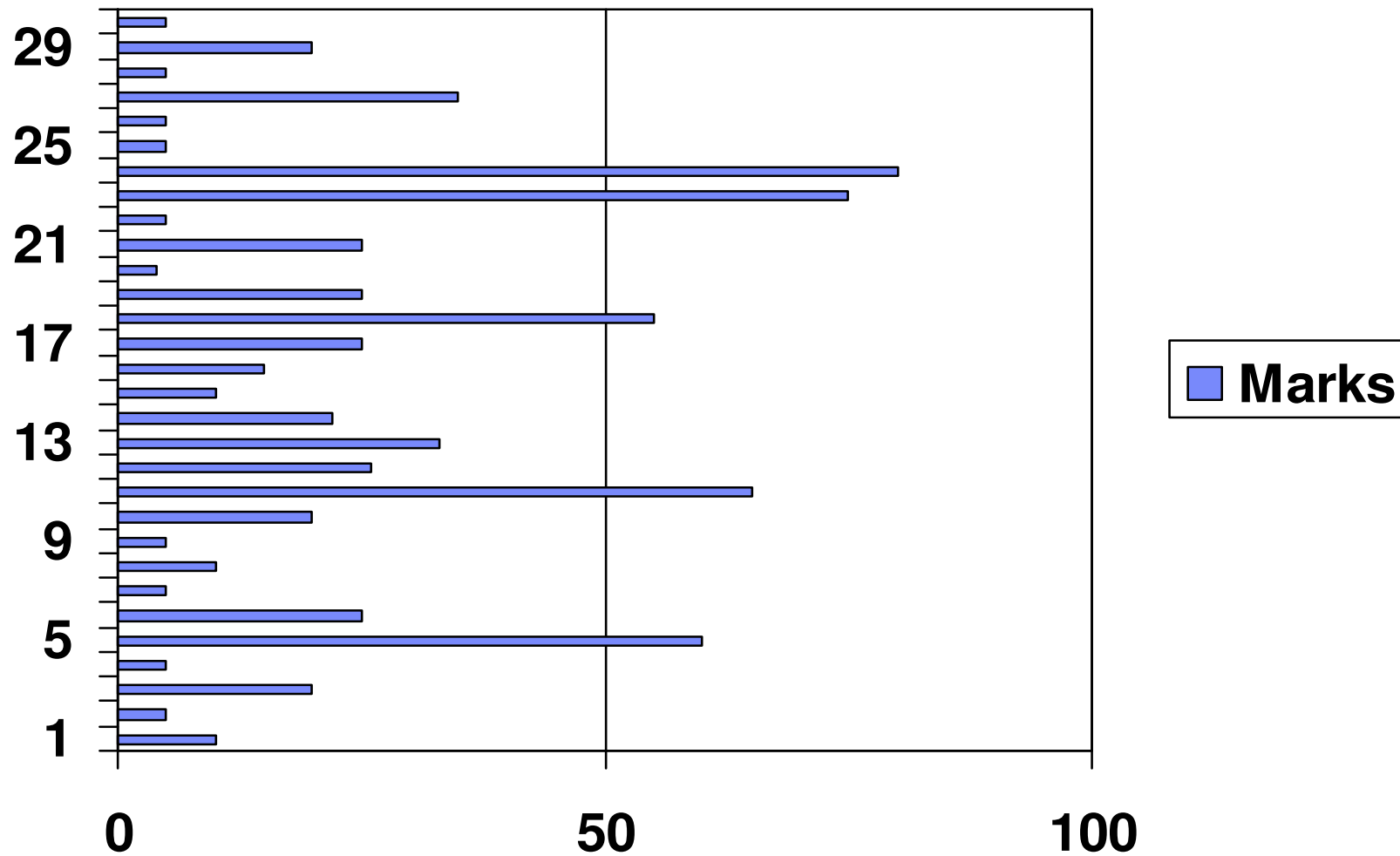
Technical Scope

- Overview on IBM middleware
- DB2 basic operations on distributed platform. For example:
 - How to submit DDL and DML commands
 - How to interpret error messages
 - How to save results
- Overview on graphical interfaces
- Overview on web programming using Java, DB2, WebSphere Application Server, Rational Application Developer and WebSphere Portal Server
- Overview on Tivoli Netcool Omnibus
- Overview on IBM Cloud Solution
- Overview on Cognos Business Intelligence
- Overview on Infosphere BigInsight

Contest PC Setup

- Networked student PC and Instructor PC
- 3GB RAM
- P4 2.0GHz
- 40GB hard disk with free space
- One set of keyboard, mouse and a 17" TFT flat screen

Team Scoreboard (will be refreshed every 15 mins)



Announcement

- Announcement will be published to the projector and by voice.

Question Overview



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1/7/2012

Two Types of Questions

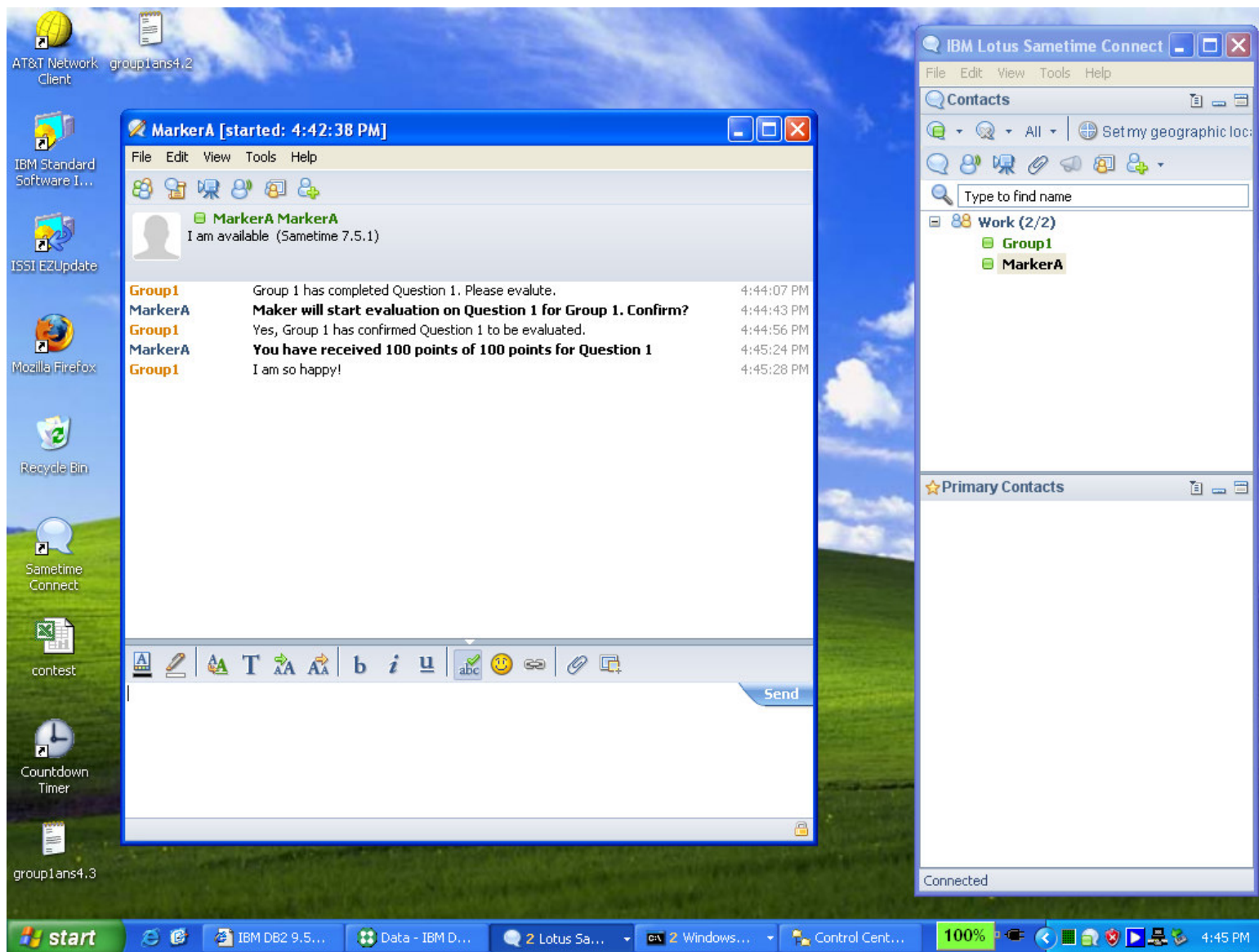
- Section 1 : Multiple Choices
 - Choices of A, B, C and D
 - **Can only submit all the answers ONCE**
- Section 2 : Programming Questions
 - Need to perform programming work
 - Answer will be submit to judge in the format according to the question instructions
 - Judge will check the correctness of the answer by running your program
 - **Can submit answers up to three times**

Distribution of Points

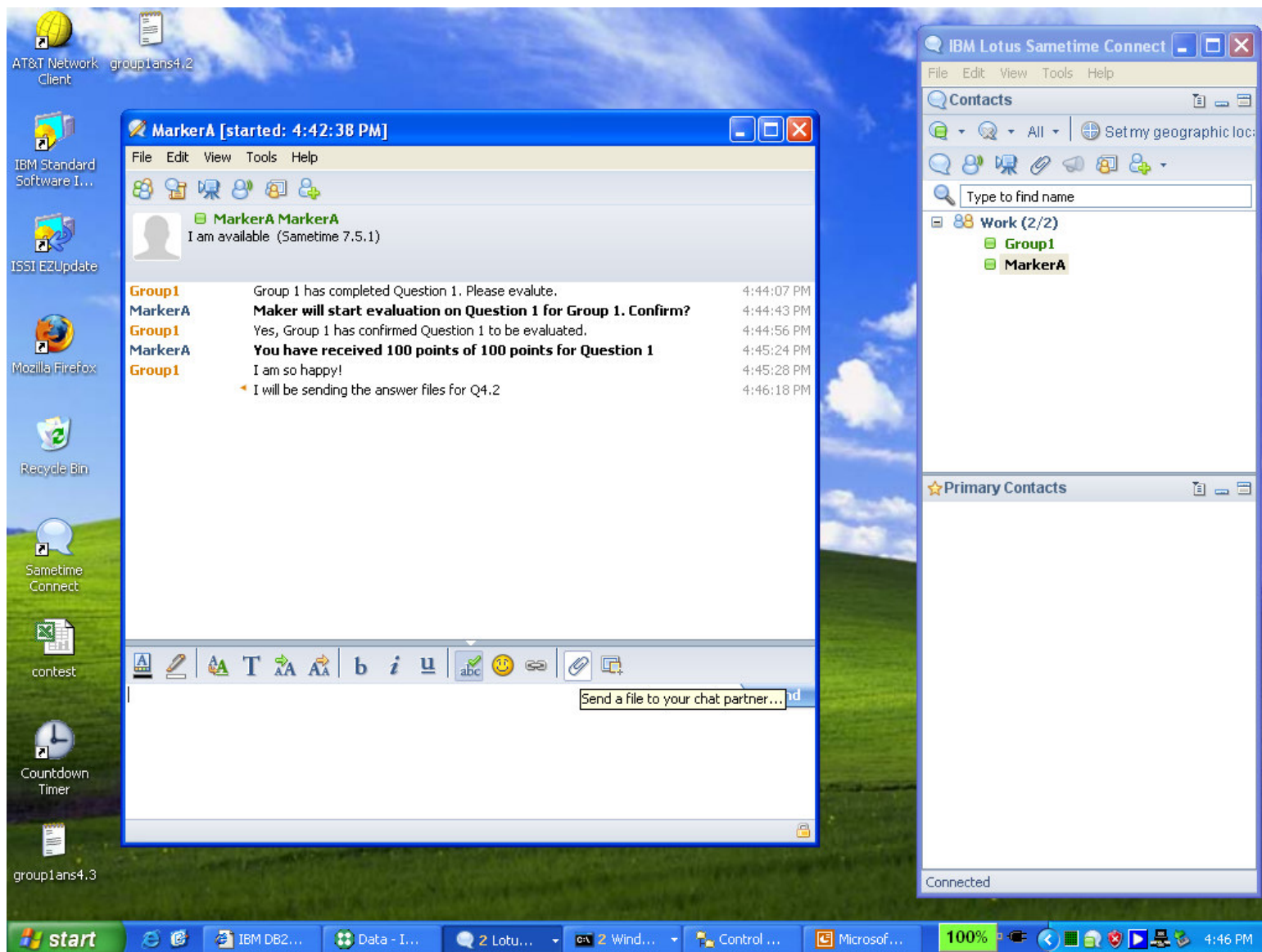
Question Number	Difficulty (* to *****)	Point
1.1	*	10
1.2	*	10
1.3	*	10
1.4	*	10
1.5	*	10
1.6	**	20
1.7	**	20
1.8	**	20
1.9	*	20
1.10	*	20
Section 1 Total		150
2.1	***	80
2.2	*****	200
2.3	***	80
2.4	****	130
2.5	***	80
2.6	***	80
2.7	*****	200
Section 2 Total		850
Grant Total		1000

Sample Points

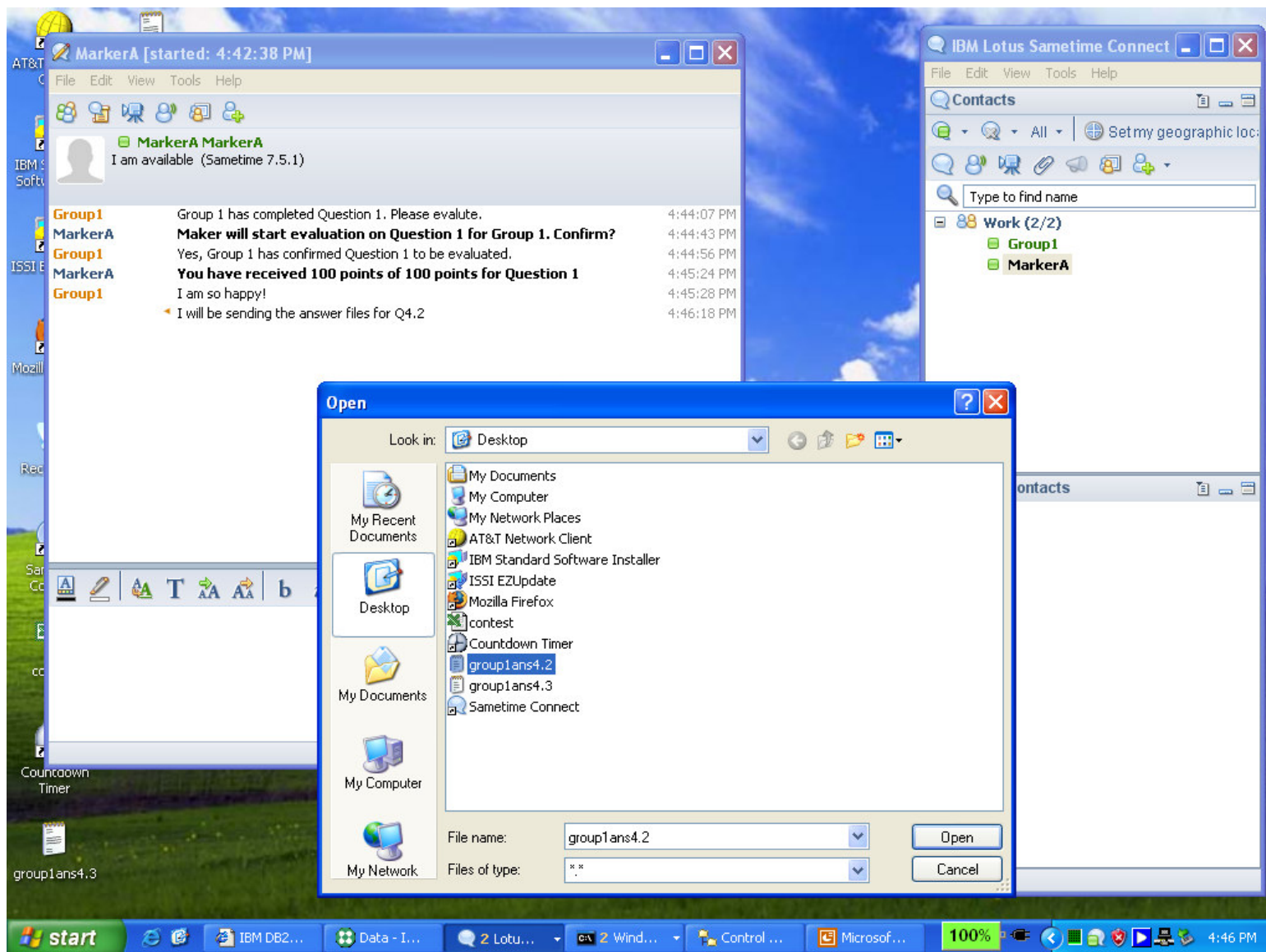
Using Sametime to Submit Answers (1)



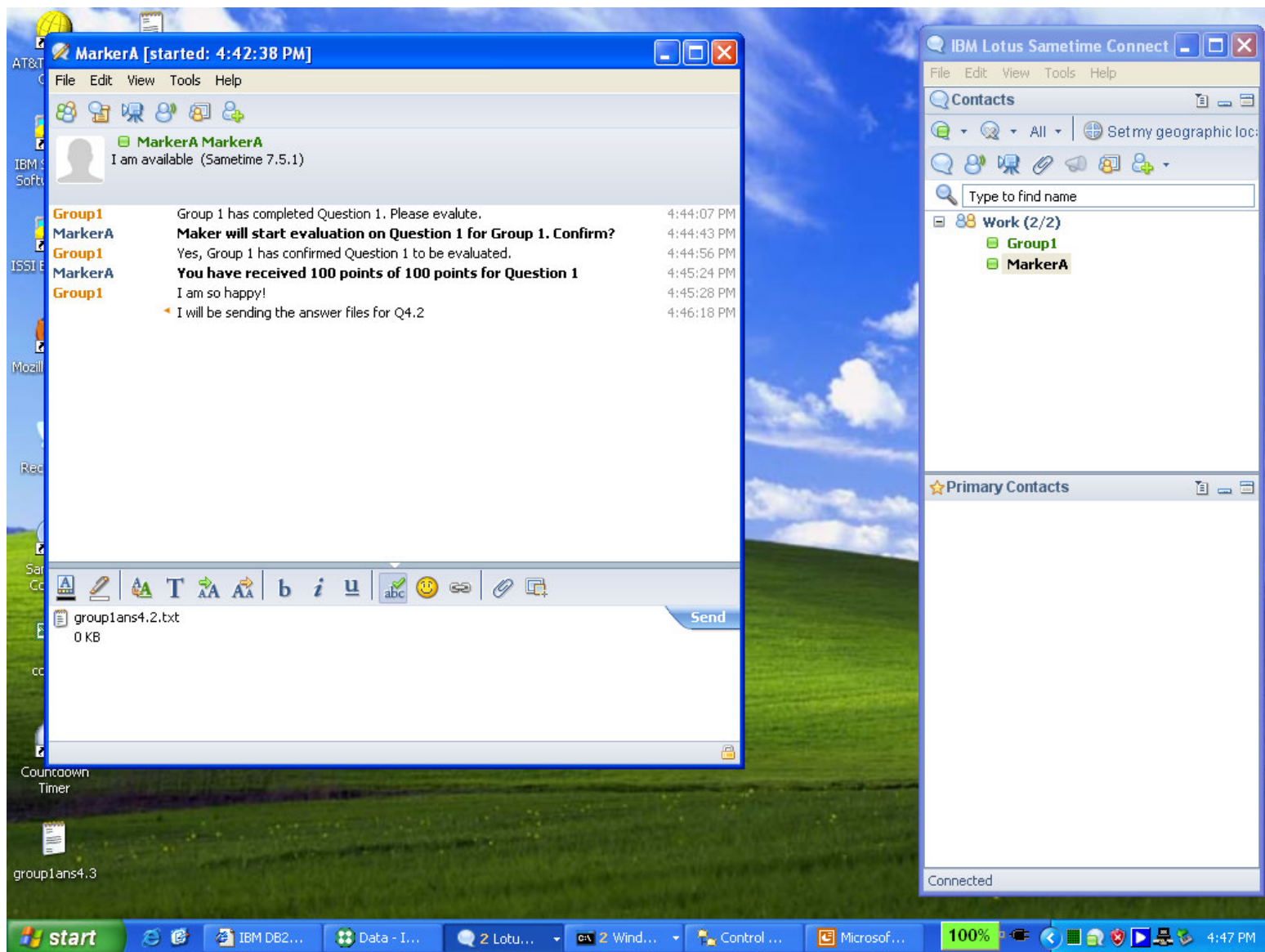
Using Sametime to Submit Answers (2)



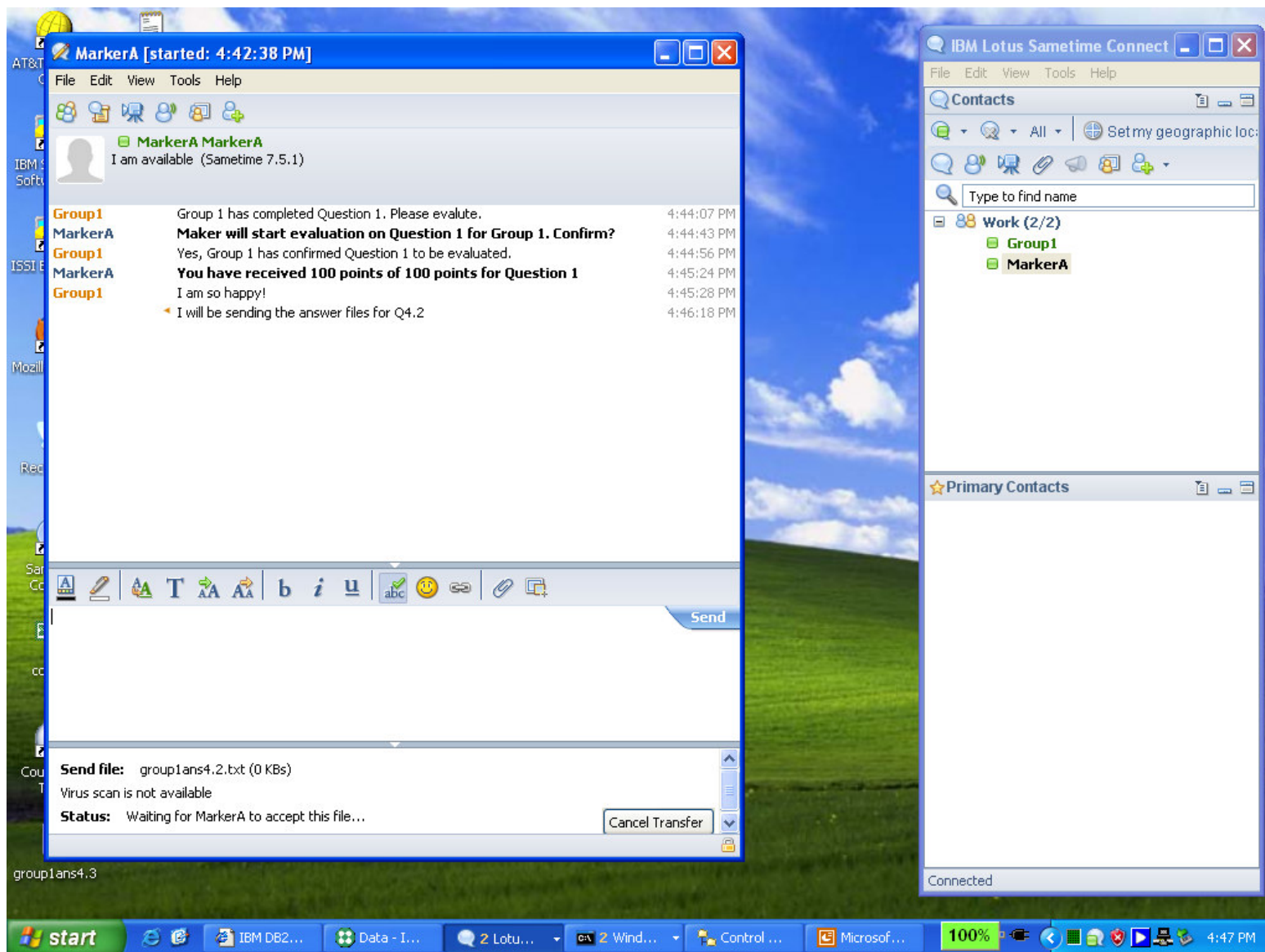
Using Sametime to Submit Answers (3)



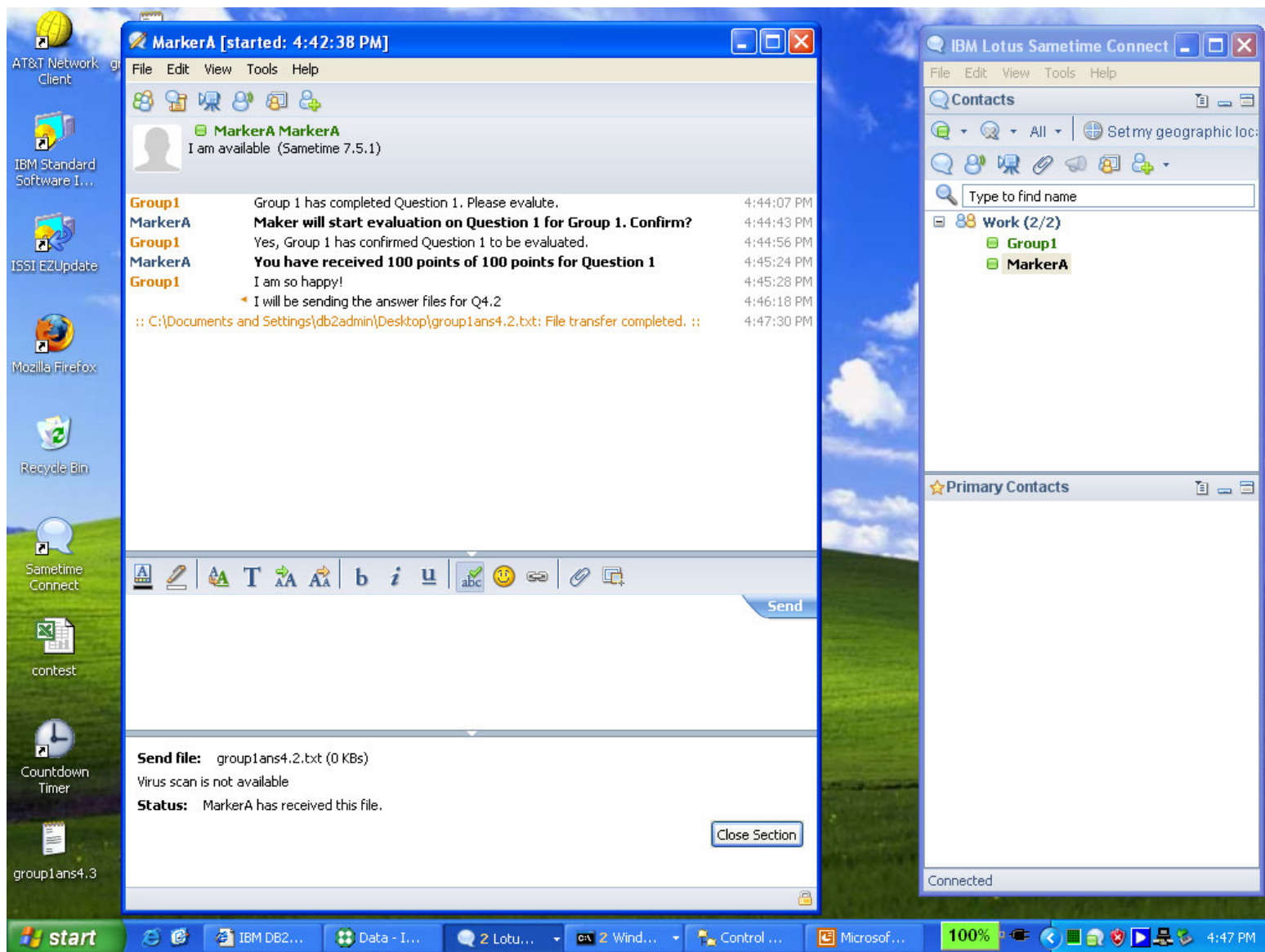
Using Sametime to Submit Answers (4)



Using Sametime to Submit Answers (5)



Using Sametime to Submit Answers (6)



University Contacts

- Mr. K.Y. Leung / Ms. Kahlen Chan
The Chinese University of Hong Kong
Room 601-602, Ho Sin Hang Engineering Bldg
Shatin, N.T.
Tel: 2609-8380
- Prof. Wilfred Ng, Prof Raymond Wong
The Hong Kong University of Science and
Technology
Dept of Computer Science
Clearwater Bay, Kowloon
2358-6979
- Prof. Anthony Tam
The University of Hong Kong
Dept of Computer Science
Pokfulam, HK
Tel: 2859-7073
- Prof. Vincent Ng
The Hong Kong Polytechnic University
Dept of Computing
Hung Hom
Kowloon
Tel: 2766-7242
- Prof. L.F. Kwok
City University of Hong Kong
Dept of Computer Science
Kowloon Tong
Kowloon
Tel: 2788-8625
- Prof. Jiming Liu
Baptist University
Dept of Computer Science
Kowloon Tong
Kowloon
Tel: 3411-5808
- Dr. Andrew KF Lui
Open University
School of Science & Technology
The Open University of Hong Kong
Rm A0917, 30 Good Shepherd Street
Homantin, Kowloon
Tel: 2768-6846

Agenda

- 9:15am - 9:30am: Introduction, contest environment walkthrough
- 9:30am – 10:30am: DB2 with LAB
- 10:30am - 11:30am: Tivoli with LAB
- 11:30am - 12:30pm: WAS
- 12:30pm - 1:30pm: Lunch
- 1:30pm - 2:30pm: RAD with LAB
- 2:30pm - 3: 30pm: Portal with LAB
- 3:30pm - 4:30pm: Cognos with LAB
- 4:30pm - 5:30pm: Big Insight with LAB

Training Environment Setup

- Open Desktop Folder “Poly Training”
- Run “trainingConfig.cmd”
- Open Cmd and ping 10.0.0.1
- Ping dash
- Report Problem if Error returns

Questions & Answers

