

Midterm Test

- **Date:** March 27 (Friday)
- **Start Time:** 12:15pm
- **Duration:** To be confirmed by Monday
- **Format:** Take-home test using **Exemplify**
 - ▶ This is an open-book test: You can refer to your course material as well as online material
 - ▶ There's no lockdown of your laptop: You'll be able to access the internet and run other programs on your laptop
 - ▶ You will not be able to suspend the Exemplify test
- **Scope:** Only SQL is tested
 - ▶ All the material covered in [lect-sql.pdf](#), [lect-sql2.pdf](#), & [lect-sql3.pdf](#)
 - ▶ For [lect-application.pdf](#)
 - ★ Only the topic on join operator (slides 2 to 24) is included in the scope of the midterm test
 - ★ Material from slides 25 onwards are excluded from the midterm test

Test Questions & Answers

- Similar to Assignment 3, each test question requires writing a single **CREATE VIEW** SQL statement that terminates with a semicolon
- As the test will be auto-graded, it is important that your SQL answers conform to the requirements specified below. If the grading program detects that an entered answer does not conform to the specified requirements, that answer will receive 0 marks even if there is some correct solution embedded within the entered answer.
- You must use the view schema provided for each question without changing any part of the view schema (i.e., view name, column names, or the order of the columns).
- Each answer must be a syntactically valid SQL query without any typographical errors: a SQL answer that is syntactically invalid or contains very minor typographical error will receive 0 marks even if the answer is semantically correct.
- For each question, your answer view must not contain any duplicate records.

Test Questions & Answers (cont.)

- You must not enter any extraneous text for your answer (e.g., "My answer is: CREATE VIEW v1 (eid) AS SELECT eid FROM Employees;") or enter multiple solutions (where your answer ends up being multiple SQL statements).
- Each question must be answered independently of other questions: the answer for a question must not refer to any other view that is created for another question.
- You are allowed to create the answer view using a single CTE statement (defining possibly multiple temporary tables). If your answer uses a CTE statement to create temporary table(s), you ****must not**** use any of the following table names:
 - ▶ Names that are used by the application's schema (e.g., Offices, Departments)
 - ▶ Names that are used by the 10 answer views: v1, v2, ..., v9, v10.
 - ▶ Any table name that begins with the prefix ****zz****.
- Your answers must not use SQL constructs that are not covered in class (e.g., window functions).
- Your answers must be executable on PostgreSQL: your answers must not use constructs that are not supported in PostgreSQL.

Test Questions & Answers (cont.)

- It is not necessary to write comments in your answer. If you choose to write comments, you must not use SQL comments that begin with two hyphen characters to avoid a potential copy-and-paste problem that results in a query being copied over as a single line with SQL code being commented out; instead, use C-style SQL comments.

Required Software

- Exemplify
- PostgreSQL & psql
 - ▶ For students who are not using psql client program, the submission deadline will not be extended if you run into problems with your client program; you may have to complete the test without the help of using the database
- Zoom (for remote invigilation)
- Microsoft Teams (for communication with lecturer & CIT staff)

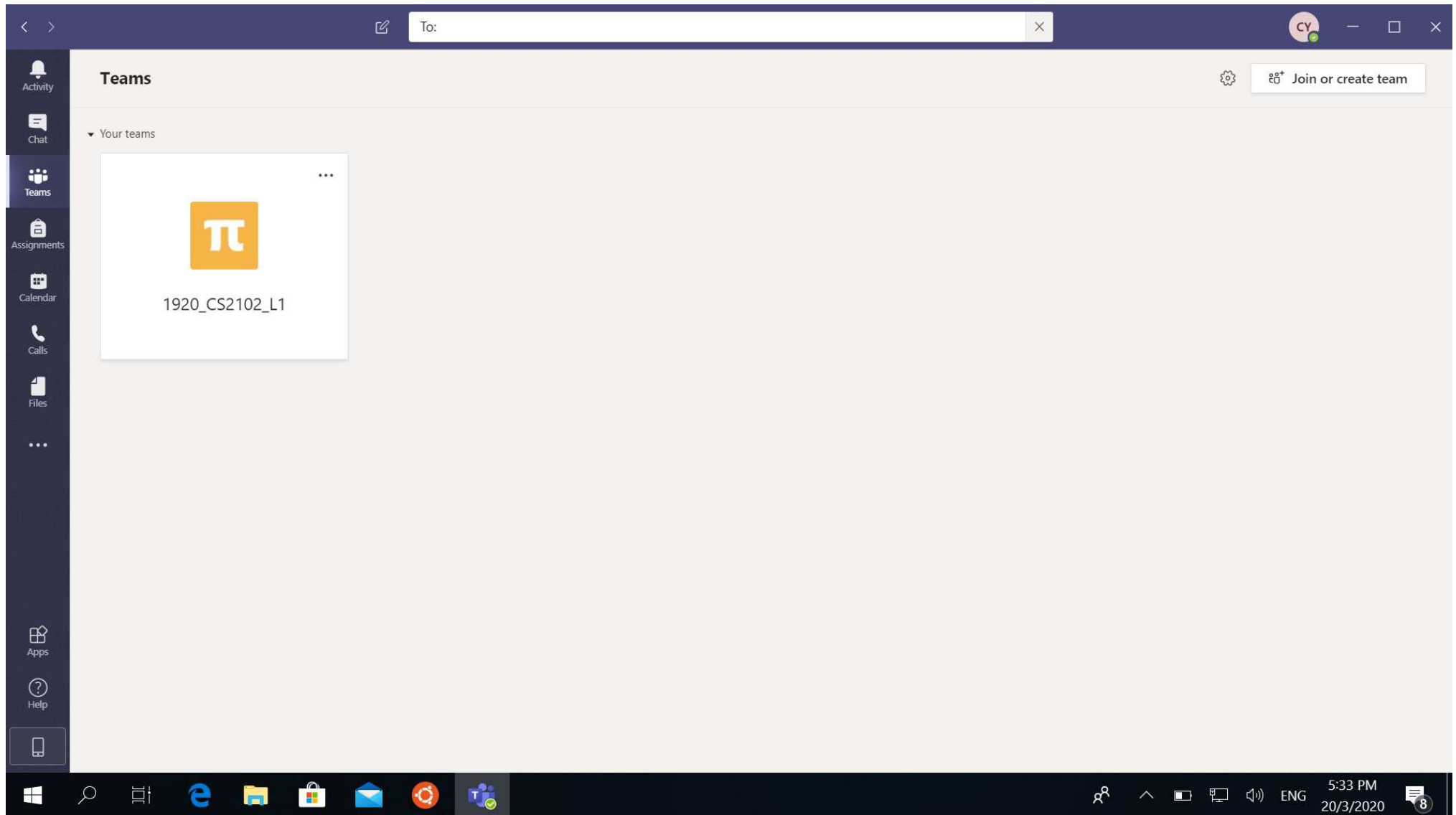
Remote Invigilation using Zoom

- Each student will be assigned to a Zoom session
- You must join only the assigned Zoom session
- You must be identifiable by the invigilator
 - ▶ If your Zoom account name is a nickname, rename it to your name
- Mute the audio
- Turn on the video so that the invigilator can see your face
- Remain in the Zoom session until you've successfully uploaded your test answers
- Do not use Zoom's chat functionality
 - ▶ If you need to communicate with lecturer / CIT staff, use Microsoft Teams

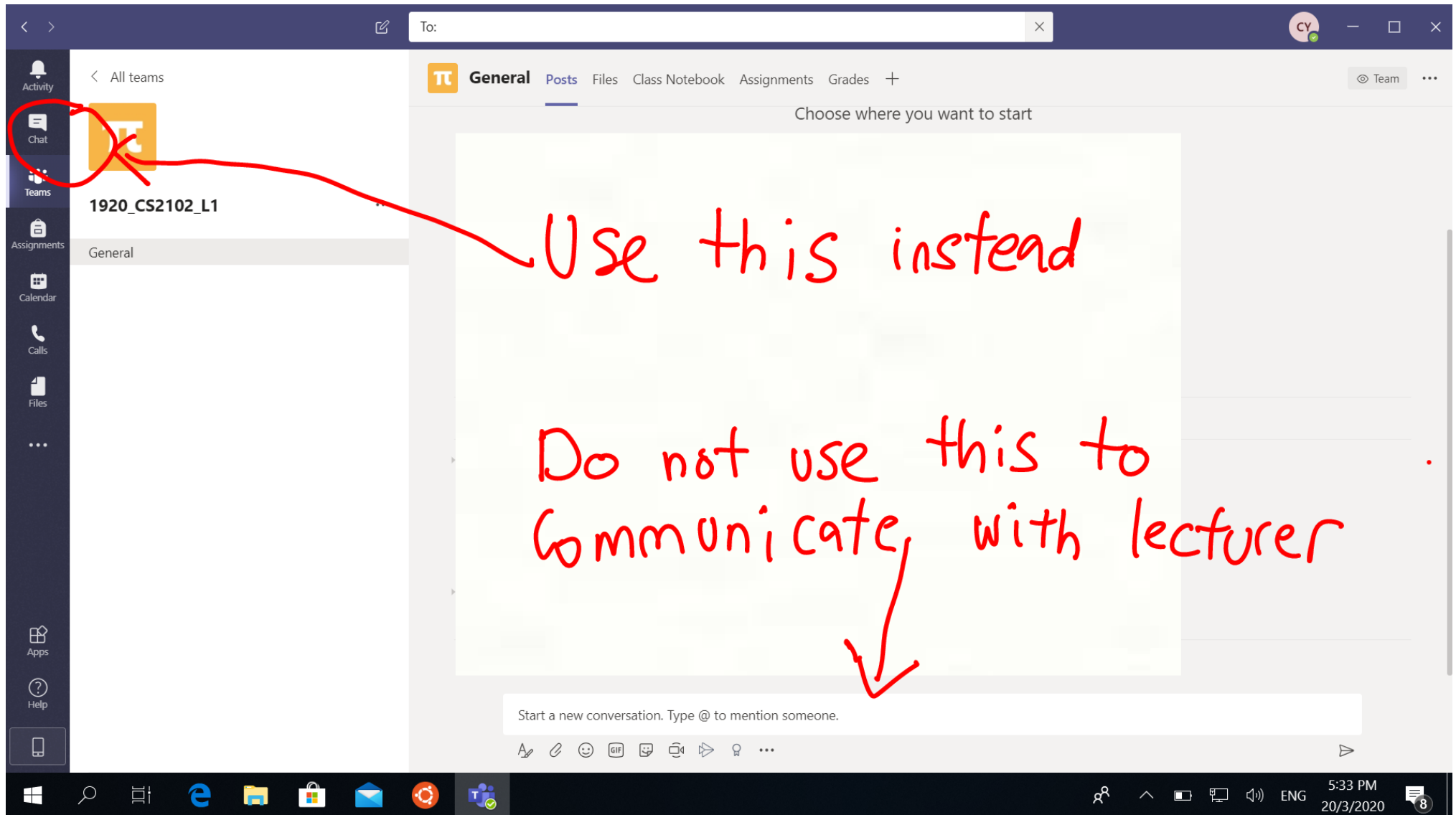
Communication with Lecturer using Teams

- Seek clarifications from lecturer on test questions
- CS2102 Team: [1920_CS2102_L1](#)
- Ask only **boolean questions**; i.e., the question's answer is Yes/No/NULL
 - ▶ An inappropriate question will receive a “NULL” reply

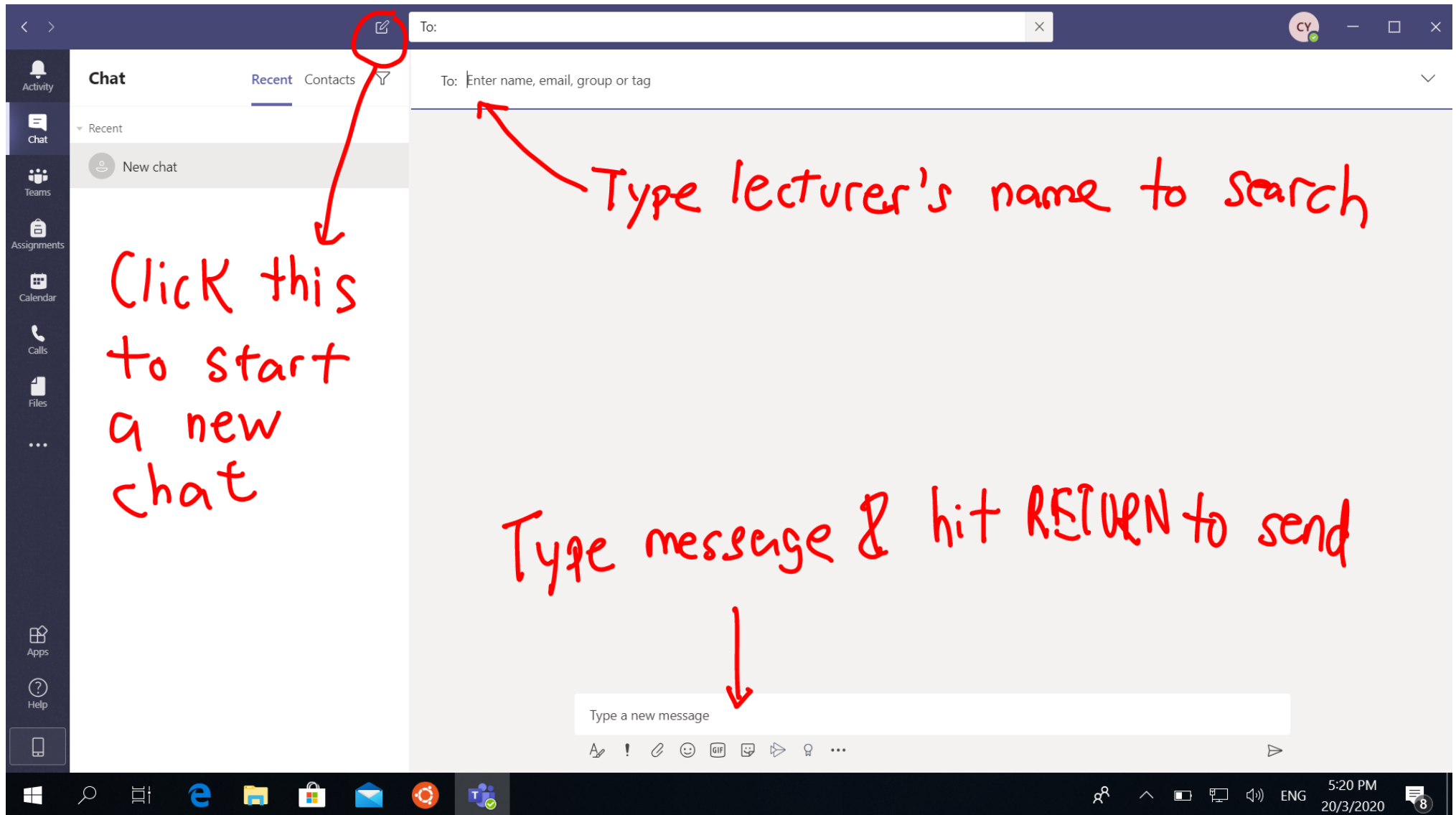
Communication with Lecturer using Teams (cont.)



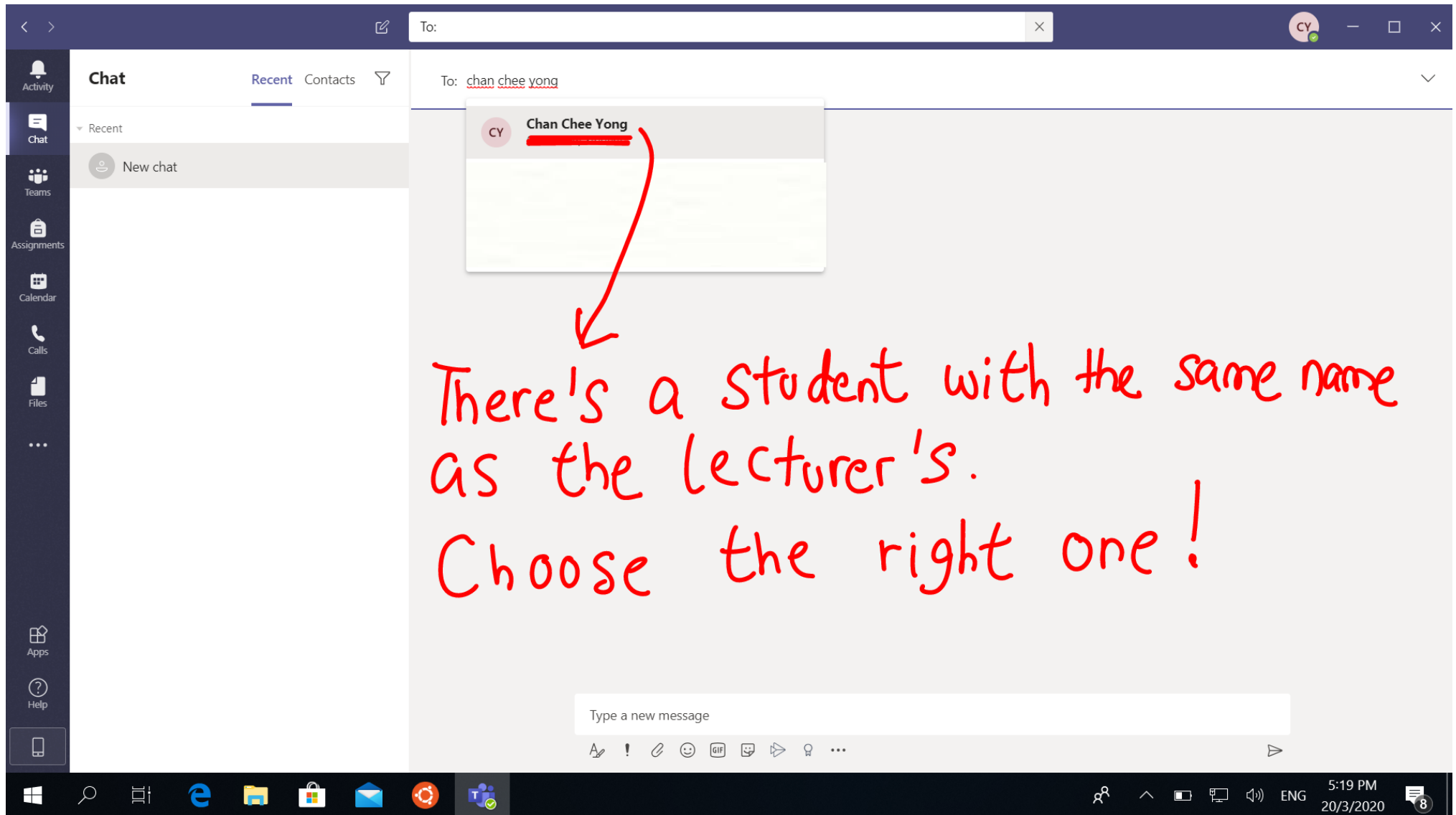
Communication with Lecturer using Teams (cont.)



Communication with Lecturer using Teams (cont.)



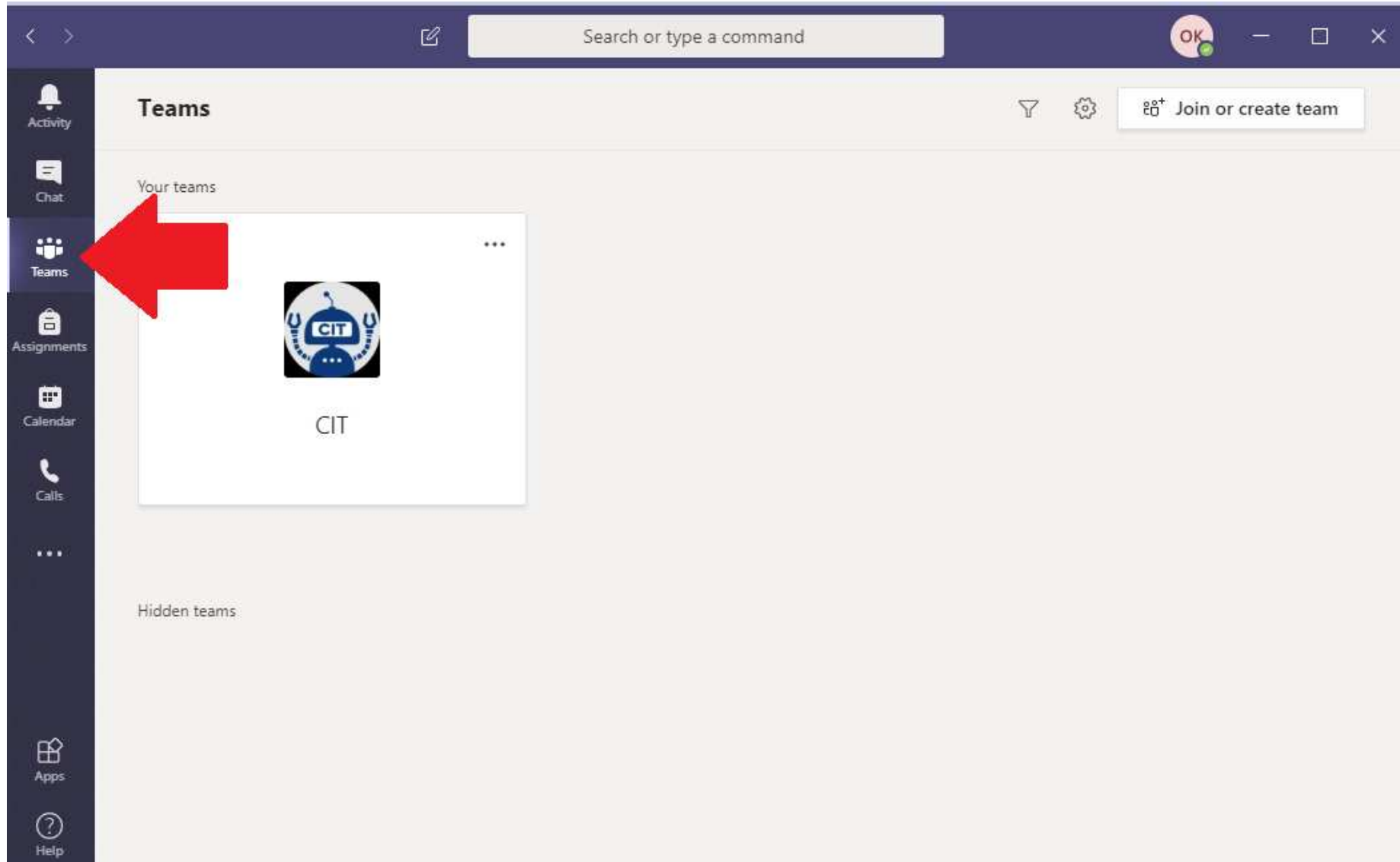
Communication with Lecturer using Teams (cont.)



Communication with CIT Staff using Teams

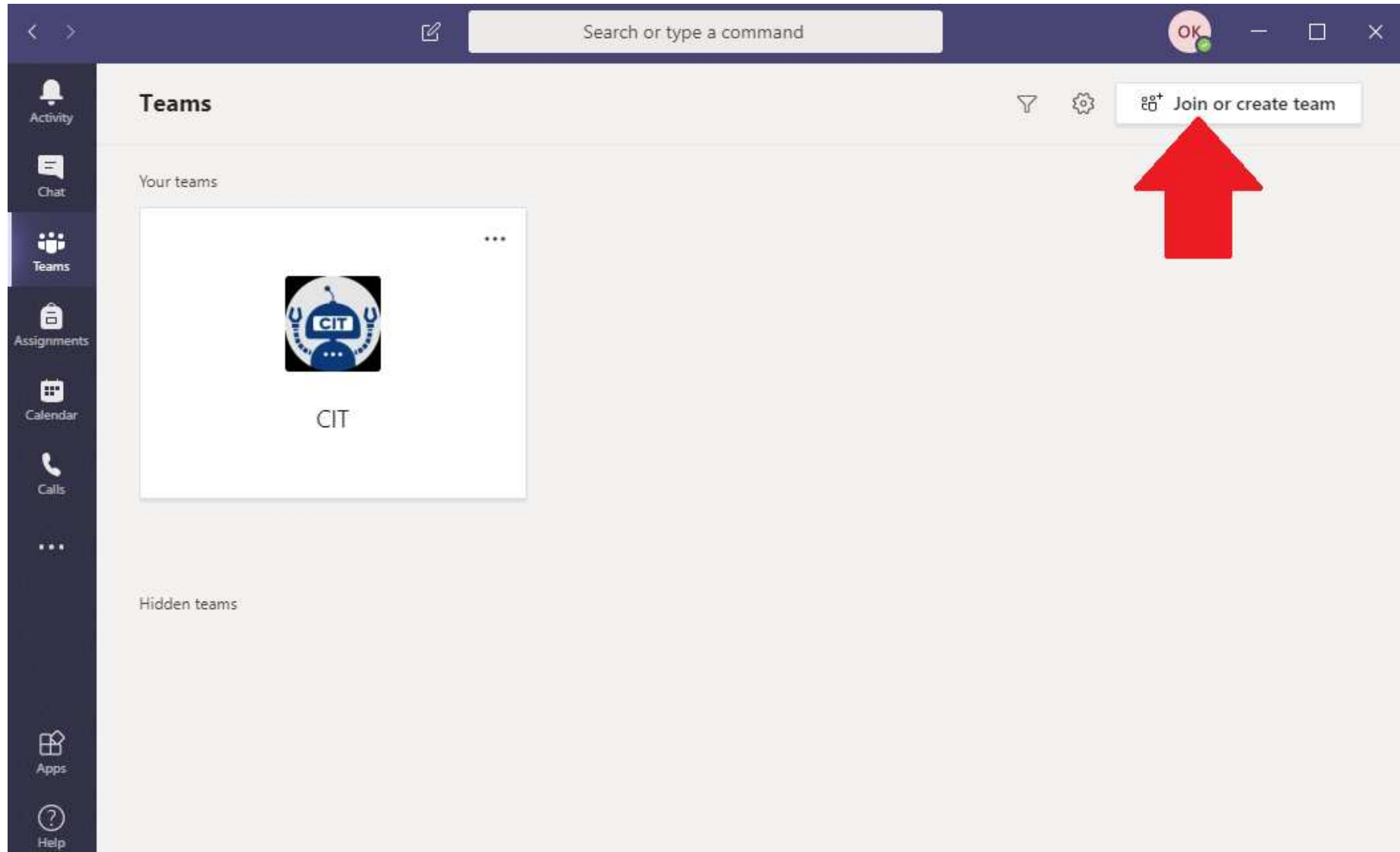
- Seek help from CIT staff on technical problems with Exemplify
- Microsoft Teams
 - ▶ Has both desktop and mobile versions
- `https://wiki.nus.edu.sg/display/DA/Live+Support+for+Take-home+Assessments`
- Code to join Exemplify Tech Support Channel: **43b8aba**
- CIT staff member: Mr. Uday Satyamohan Athreya

Communication with CIT Staff using Teams (cont.)



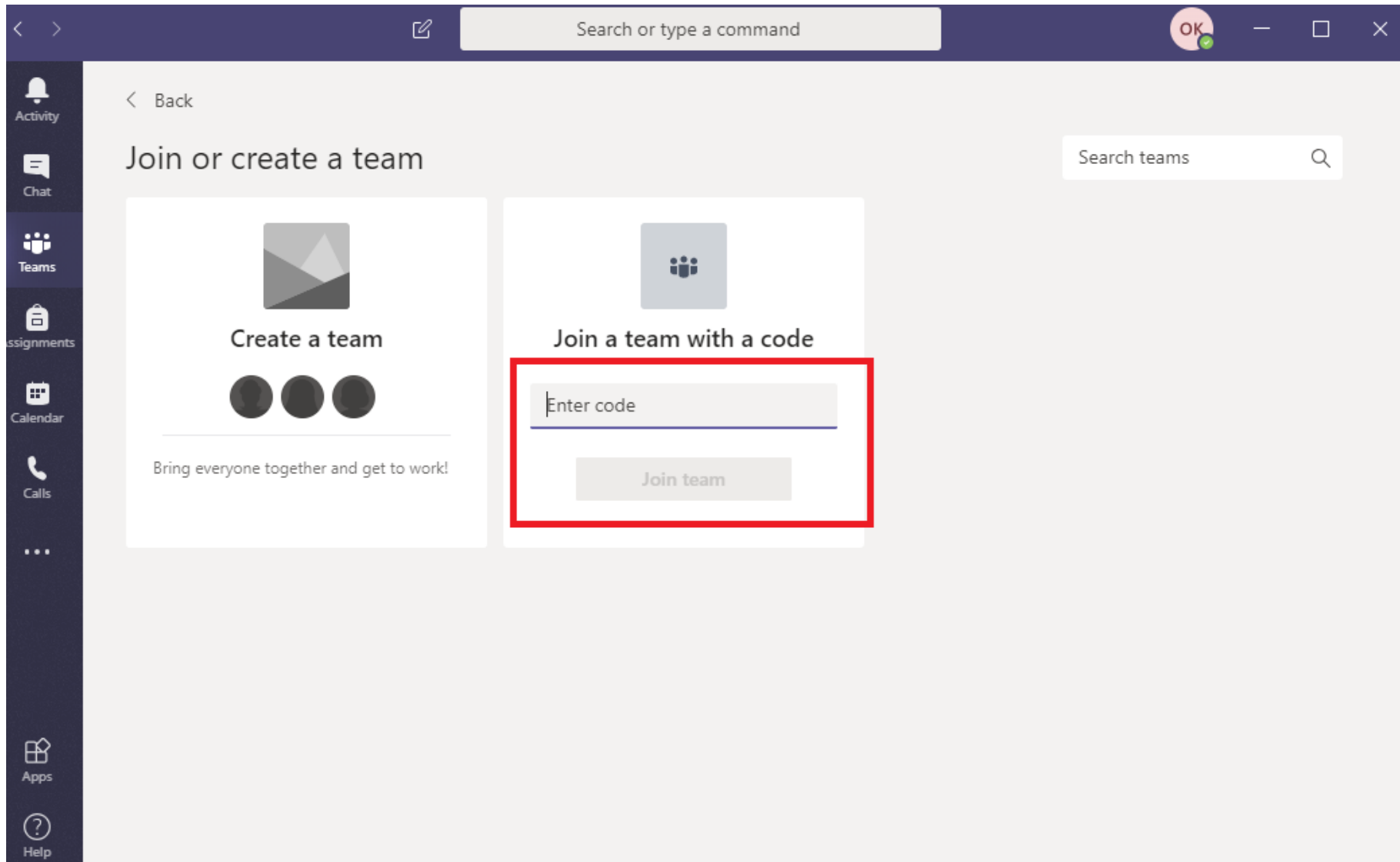
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Communication with CIT Staff using Teams (cont.)



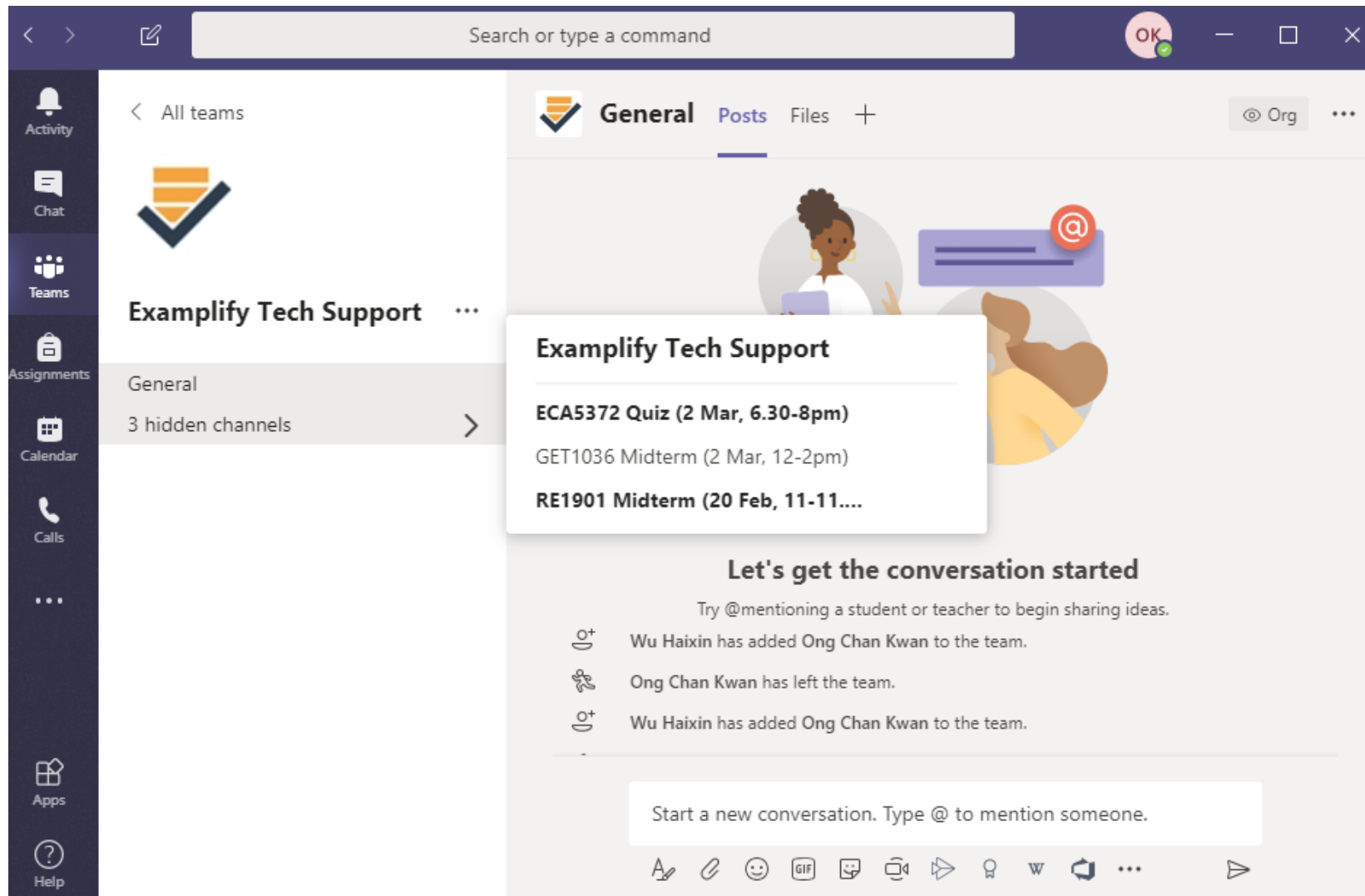
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Communication with CIT Staff using Teams (cont.)



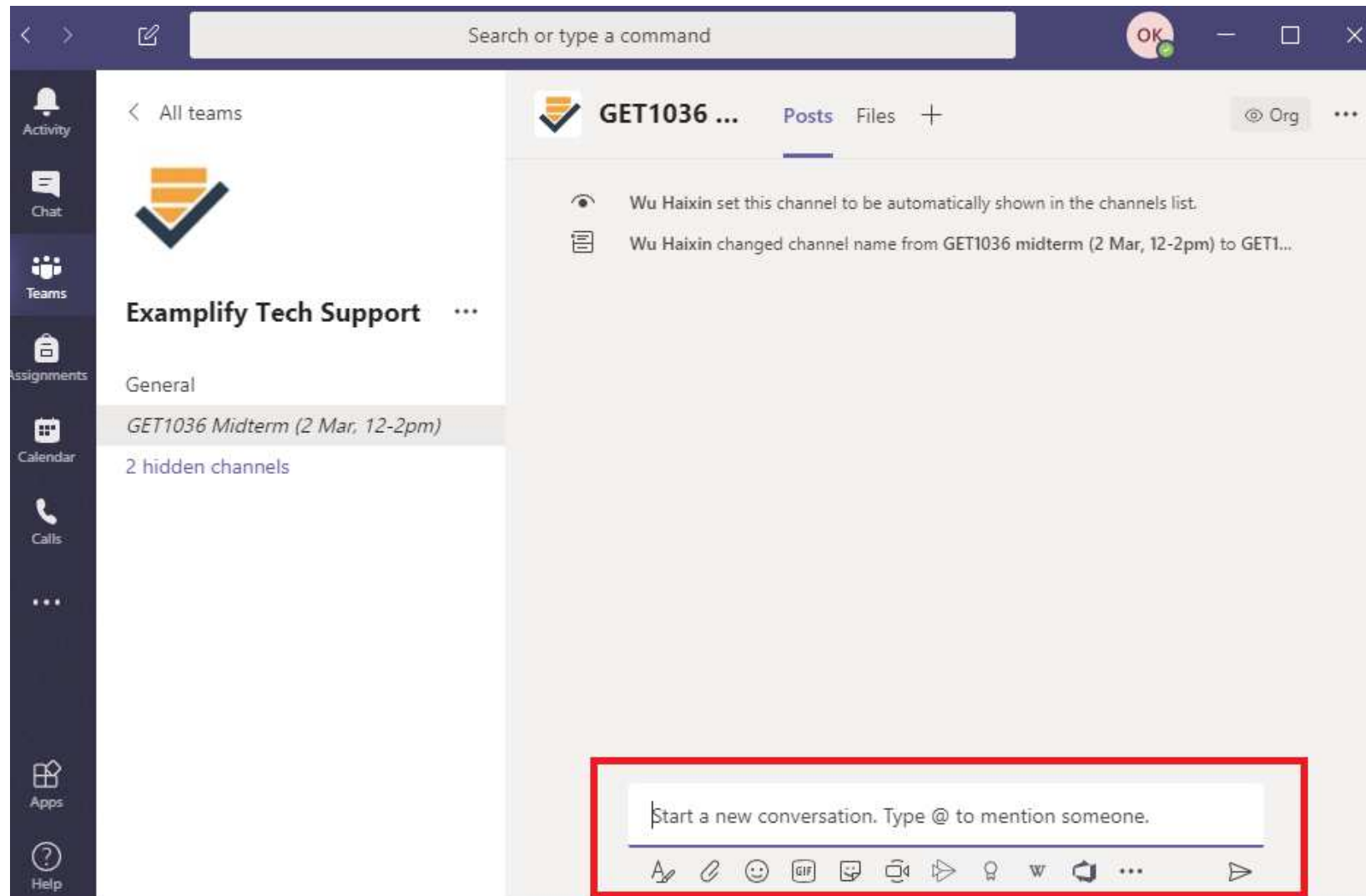
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Communication with CIT Staff using Teams (cont.)



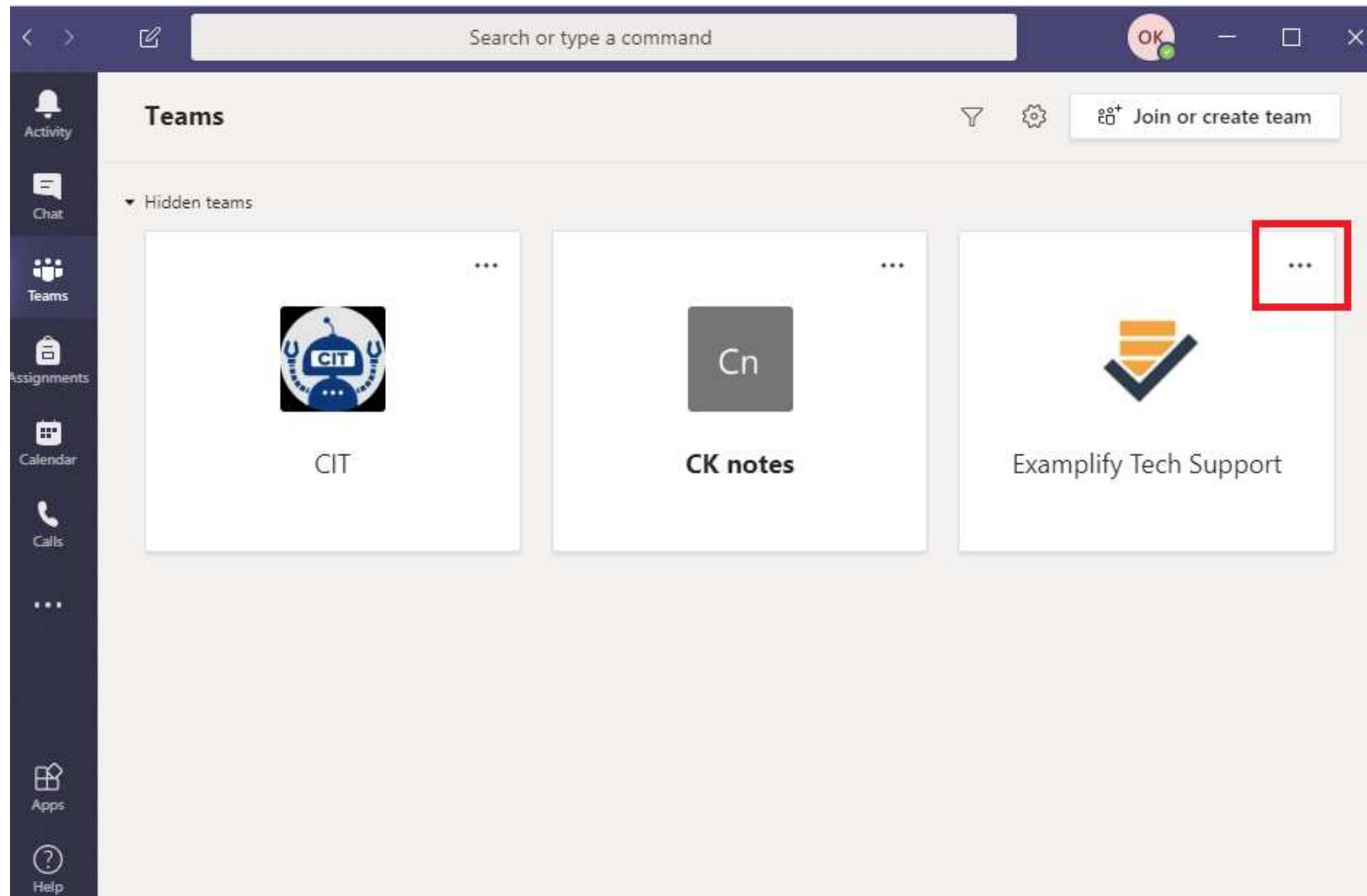
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Communication with CIT Staff using Teams (cont.)



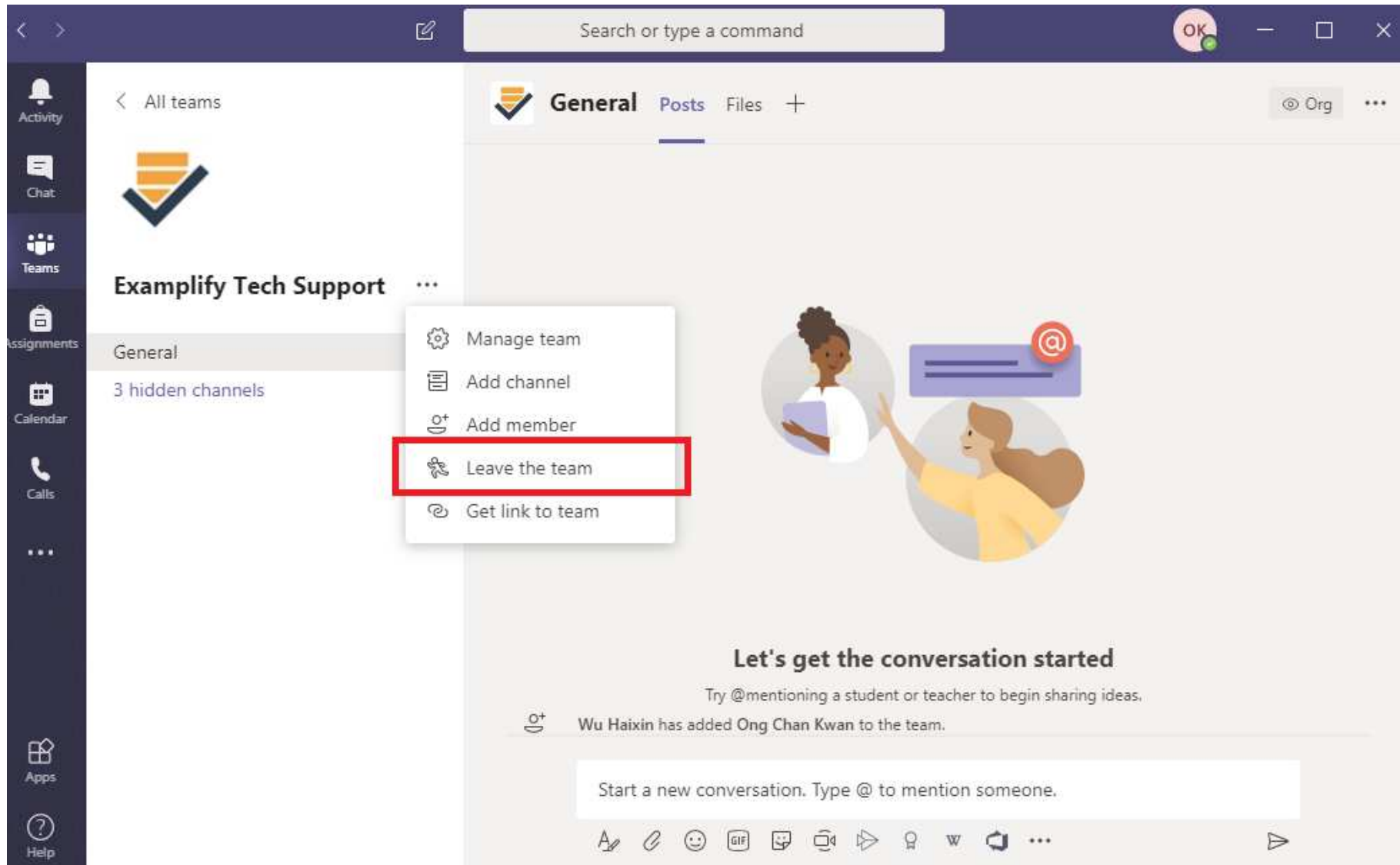
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Communication with CIT Staff using Teams (cont.)



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Communication with CIT Staff using Teams (cont.)



Source: <https://wiki.nus.edu.sg/display/DA/How+to+join+and+quit+a+team+-+Desktop+version>

Preparation for Test

- Install all the required software on the device that will be used for the test
- **Thursday (March 26)**
 - ▶ The Exemplify test paper will be available for download on Thursday night. This will be announced on LumiNUS.
 - ▶ You can download the test only once. You MUST download the test on the device that will be used for the test.

Day of Test (March 27)

- The Exemplify test password will be broadcast on **CS2102 Teams** at 12:15pm
- Instructions on how to download the testcase file will be included in the test instructions.

Penalty Marks

- Students who are absent from the test without a medical certificate that covers March 27 will receive 0 marks for the test.
 - ▶ Students who are excused from taking the test on March 27 **should not** download the test paper
 - ▶ A student who has opened the test paper but did not submit the paper will receive 0 marks for the test.
- SQL answers that do not conform to the specified requirements will receive 0 marks.
- Students who did not join the assigned Zoom session will be penalized
- Students who did not upload their test answers in time will be penalized

Reminders on Exemplify

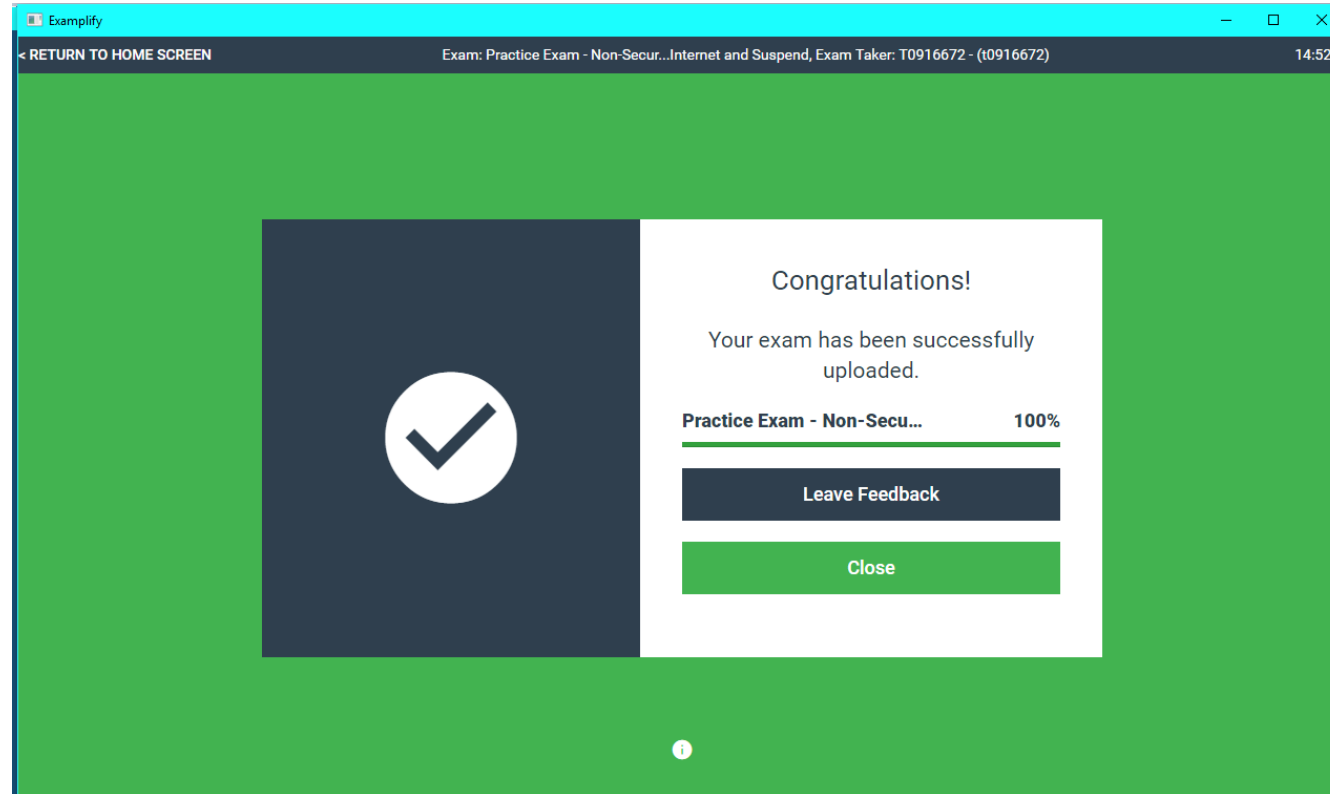
- Should not use wireless accessories (e.g., wireless keyboard/mouse)
- Create an exclusion for your anti-virus software
 - ▶ <https://wiki.nus.edu.sg/pages/viewpage.action?pageId=187604919>
- Fully charge your device before the test & have your charger ready if needed
- For **Windows users**
 - ▶ Disable **Windows Update** before the test & re-enable it after the test
 - ▶ Disable **anti-virus software** before the test & re-enable it after the test

Reminders on Exemplify (cont.)

The screenshot shows a web interface with a blue background. In the center, there are two side-by-side white panels. The left panel is titled 'Return To Exam?' and contains the text 'By clicking this button, you will be directed back to the exam.' Below this text is a dark grey button labeled 'Return To Exam'. The right panel is titled 'Submit Your Exam?' and contains the text 'By submitting the exam, you will not be able to return to the exam.' Below this text is a checkbox labeled 'I am ready to exit my exam.' which is checked. A red arrow points to the checkbox. Below the checkbox is a green button labeled 'Submit Exam' which is highlighted with a red rectangular border. At the bottom center of the blue background, there is a small white circle with an 'i' inside it.

Source: <https://wiki.nus.edu.sg/pages/viewpage.action?pageId=187598226>

Reminders on Exemplify (cont.)



Source: <https://wiki.nus.edu.sg/pages/viewpage.action?pageId=187598226>

Code of Student Conduct

(A) Academic, Professional and Personal Integrity

- The University is committed to nurturing an environment conducive for the exchange of ideas, advancement of knowledge and intellectual development. **Academic honesty and integrity** are essential conditions for the pursuit and acquisition of knowledge, and the University expects each student to maintain and uphold the highest standards of integrity and academic honesty at all times.
- The University takes a strict view of cheating in any form, deceptive fabrication, plagiarism and violation of intellectual property and copyright laws. Any student who is found to have engaged in such misconduct will be subject to disciplinary action by the University.
- It is important to note that all students share the responsibility of protecting the academic standards and reputation of the University. This responsibility can extend beyond each student's own conduct, and can include reporting incidents of suspected academic dishonesty through the appropriate channels. Students who have reasonable grounds to suspect academic dishonesty should raise their concerns directly to the relevant Head of Department, Dean of Faculty, Registrar, Vice Provost or Provost.

Code of Student Conduct (cont.)

Each student will be required to sign the following declaration at the start of the test.

1. I am aware of, and will abide by the **NUS Code of Student Conduct** (in particular the part on Academic, Professional and Personal Integrity when attempting this assessment.
2. I have read and understood the rules of the assessments as stated below.
 - ▶ Students should attempt the assessments on their own. There should be no discussions or communications, via face to face or communication devices, with any other person during the assessment.
 - ▶ Students should not reproduce any assessment materials, e.g. by photography, videography, screenshots, or copying down of questions, etc.
 - ▶ I understand that by breaching any of the rules above, I would have committed offences under clause 3(l) of the NUS Statute 6, Discipline with Respect to Students which is punishable with disciplinary action under clause 10 or clause 11 of the said statute.
 - ★ 3) Any student who is alleged to have committed or attempted to commit, or caused or attempted to cause any other person to commit any of the following offences, may be subject to disciplinary proceedings:
 - ★ (l) plagiarism, giving or receiving unauthorised assistance in academic work, or other forms of academic dishonesty.