CS331: Programming Language Lab

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Outline

- Course Structure
- Tutorial and Assignments
- Books and Reference Materials
- Tools to be installed in your PC
- Grading Pattern
- Rules for Malpractices

Course Structure

- Programming paradigms: imperative and declarative (introduction);
- **Concurrent programming**
  - basic idea, Java language introduction,
  - concurrent programming with Java (threads and libraries);
- **Logic programming**
  - basic idea, Prolog introduction,
  - logic programming with Prolog;
- **Functional programming**
  - basic idea, introduction to LISP/Haskell,
  - functional programming with LISP/Haskell;

Tutorial and Assignment

- Mode of Lab Course is Online

- As there is tutorial components in this courses

  - There will be one hour tutorial every week

  - 10-11 Wednesday MS Teams

- Assignments

  – We will float assignments in WebSite and Teams

  – You are supposed to code for the assignment and

  – submit before the deadline of the assignments in MS Teams]

Tutorial and Assignment

- **Concurrent programming**
  - **CP1:** Basic concurrent programming with Java, [10 Marks]
  - **CP2:** Advanced concurrent programming with Java (threads and libraries); [15 Marks]
- **Logic programming**
  - **LP1:** basic idea, Prolog introduction, [10 Marks]
  - **LP2**: logic programming with Prolog; [15 Marks]
- **Functional programming**
  - **FP1:** basic idea, introduction to LISP/Haskell, [10 Marks]
  - **FP2:** functional programming with LISP/Haskell; [15 Marks]
- 75 marks ➜ Scale to 100

Tools to be installed

- Java Compilers
  - Almost every where we get
- Gprolog: in Ubuntu or Any other OS
  - sudo apt-get install gprolog
- Haskel:
  - sudo apt-get install haskell-platform

Rules for Malpractices

- Copy cases

- You require to ensure no on copy from your

- Both source and destination guy will get –Full Marks for that assignment

- MOSS Check: Variable change,

TAs

- Chinmaya Swain
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- Vaiabhav Gupta
- Maithilee Patawar
- Utkarsh Singh

Thanks