Spring 2020 SIT22013

ICT Problem Solving

Syllabus

March 4, 2020

Objectives

To develop the ability in problem solving (using computers)

Learning by “practice and discussion”.

Classes and Materials

10:00 – 11:15 AM Wednesday
11:30 - 12:45 PM Wednesday
EBEN 102

Textbook: None

11 Programming Assignments

Homepage: Hisnet course webpage

Course Schedule

Week / Tasks	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Remarks
Programming Assignments	INTR	INTR	**PA 1**	**PA 2**	PA 3	PA 4	GE	Q & A	PA 5	PA 6	PA 7	PA 8	PA 9	PA 10	PA 11	WRP	Individual

Video lecture

On-line presentation using Zoom

INTR: Introduction
WRP: Wrap-up
GE: General Election

PA Schedule

PA	Posted	Due	Discussion
1	Mar. 4	Mar. 11	Mar. 18
2	Mar. 11	Mar. 18	Mar. 25
3	Mar. 18	Mar. 25	Apr. 1
4	Mar. 25	Apr. 1	Apr. 8
5	Apr. 1	**Apr. 8**	**Apr. 29**
6	Apr. 8	**Apr. 29**	**May 6**
7	Apr. 29	May 6	May 13
8	May 6	May 13	May 20
9	May 13	May 20	May 27
10	May 20	May 27	June 3
11	May 27	June 3	June 10

General Election: **Apr. 15**
Mid-term: **Apr. 20 – Apr. 25**
Final exam.: **June 15 – June 20**

Instructor

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Teaching Assistant

To be announced

Note for your PA

- Input data is always given by the standard input.
- The result must be printed out by the standard output.
- Your program only allows to use the standard libraries.
- Your program must be one Python script file.
- Do not print out any debugging messages.
- Do not put any pausing instruction.

Notes

No repeating of the course allowed

No mid-term and final

3-5 quizzes

Surprising extra credits given to great ideas

Things Prohibited

Late attendance

Making noises in class

Mobile phones, toilet, late class, etc.

Cheating

Programming assignments, quizzes

attendance checks

Grading Policy

Attendance checks (14 times) : 10 pts / attendance

Programming Assignments (11 problems) : 30 pts / problem

Quizzes (3 - 5 times) : 10 pts / quiz

ACM-ICPC* participation

Worldwide

- More than 40,000 students
- From 2,736 universities from 102 countries

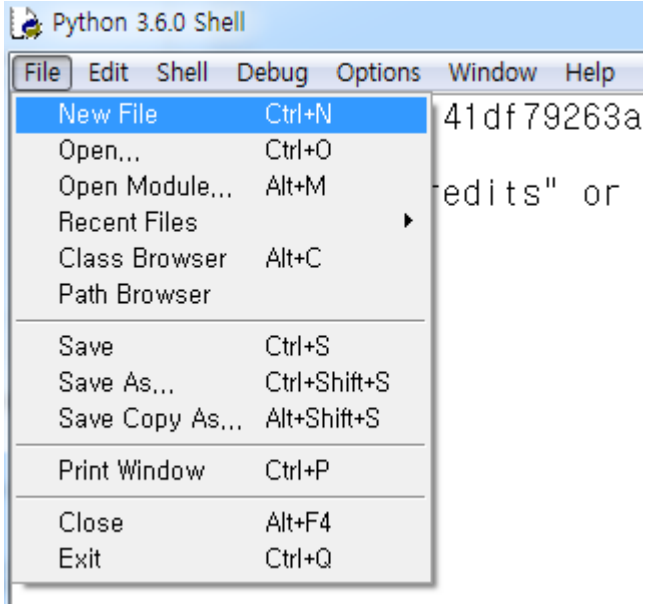
Korea

- 630 teams from 64 universities (2016)
- KAIST won bronze medals in the ACM-ICPC world finals (2017).
- SNU won gold medals (2017) and sliver medals (2018, 2019) in the ACM-ICPC world finals.
- Kim Il Sung University won 30th place in the ACM-ICPC world finals (2016).

***ICPC: International Collegiate Programming Contest**

Programming Environment

- Use either **Python 2** or **Python 3** (recommended).
- Basic instructions for installing Python
  1. Download the installer from https://www.python.org/downloads/.
  2. Run the downloaded file to install Python on your computer.
  3. Run IDLE (Integrated Development and Learning Environment) and select **File → New File / Open** to edit your Python script.



How to do Programming Assignments

You should submit a Python file together with a write-up

- Your code will be examined by test cases.
- Your write-up must be in one PPT slide; it should be clear and concise for effective discussion.

You can examine your code before submissions using DOMjudge, a web-based auto-judge system.

Extra points

- Share useful test cases with the class through Hisnet
- Show an extra-ordinary result at testing