

# Make / Cmake

## InLab/OutLab-10

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### Submission Guidelines for assignment

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1. In the file readme.txt in the team-name directory, which contains the contribution of each team member, roll number and references (cite where you get code/code snippets from).
2. Rename the directory team-name to actual team name instead of  
E.g. Coders
3. Compress the directory to <team\_name>.tar.gz  
e.g. coders.tar.gz
4. Submit one assignment per team. Please.

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### Problem 1

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This is a basic client-server application. Write a makefile for it. Just make the relevant changes in the Makefile in the problem folder.

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### Problem 2

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Write a make file for the given files. Please make sure that whenever a change is made to any file, only the bare minimum of files must be affected on calling make.

main.o should be generated from main.cpp  
factorial.o should be generated from factorial.cpp  
hello.o should be generated from hello.cpp

All the files should be combined to give a single executable named hello  
Just make the relevant changes in the Makefile in the problem folder.

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### Problem 3

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**a)** Improve upon the make file you made in the previous question, by including Macros/Variables. Include atleast 2 macros. Please make sure that whenever a change is made to any file, only the bare minimum of files must be affected on calling make.

main.o should be generated from main.cpp

factorial.o should be generated from factorial.cpp

hello.o should be generated from hello.cpp

All the files should be combined to give a single executable named hello

Just make the relevant changes in the Makefile in the problem folder.

**b)** Write a makefile for the given files. Do make use of :

`$@`

`$<`

`$^`

hellomake.o should be generated from hellomake.c

hellofunc.o should be generated from hellofunc.c

All the files should be combined to give a single executable named hellomake

Just make the relevant changes in the Makefile in the problem folder.

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### Problem 4

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Please find the repo on <https://github.com/dipteshkanojia/recursive-make>. All instructions are in the git README. Do not fork this repo, just clone it to your machine, work on the problem and submit Makefiles in the correct format (described in the README) in the folder called problem4.