

# ESPA manual

(Evaluation System for Programming Assignment)

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# How to register

Go to <http://stem.pusan.ac.kr/DS2019> and 'Register' menu.

The screenshot shows a web browser window with the URL <http://stem.pusan.ac.kr/DS2017/>. The page title is "2017 DATA STRUCTURE". On the left sidebar, the "Register" menu item is highlighted with a red box. The main content area features a tree diagram and a table of articles. The table has columns for "No.", "Subject", "Nick Name", "Registered Date", and "조회수". Two articles are listed, both with a "Notice" icon and a "조회수" of 1, registered on Sep 06, 2017.

No.	Subject	Nick Name	조회수	Registered Date
1	Notice related to using ESPA	조준(TA)	1	Sep 06, 2017
1	ESPA 유의사항	조준(TA)	1	Sep 06, 2017

Please enter the information.

- The password can be only letters and numbers.
- Student number should be 9 digits.
- Enter the actual e-mail and phone number you use.

**2017 DATA STRUCTURE**

**Registration**

※ 계정 신청시주의해야 할사항  
 비밀번호 : 영문과 숫자로만 가능합니다.  
 학번 : 9자리로 적으세요 (예) 200012101  
 e-mail주소 연락처 : 꼭 적기바랍니다.

User Id	test
Password	*****
Name	홍길동
Student Number	201624000
Grade	Sophomore
Major	정보컴퓨터공학부
e-mail address	test@pusan.ac.kr
phone number	010-0000-0000

Registration Reset

Click '확인(Ok)' to complete the registration.

**After approval from the administrator(TA), login is possible.**

**2017 DATA STRUCTURE**

**Registration >> Request for Registration is completed**

등록 신청이 완료되었습니다.  
 등록 승인은 1~2일 후에 이루어집니다.  
 Id 과 비밀번호를 잊지 마세요.  
 등록하신 정보는 다음과 같습니다.확인해보시기 바랍니다.  
 정보가 잘못 입력 되었을 때에는 관리자께 메일 주십시오.

User Id	test
Password	stem9987
Name	홍길동
Student Number	201624000
Grade	sophomore
Major	정보컴퓨터공학부
e-mail address	test@pusan.ac.kr
Phone number	010-0000-0000

확인

## How to check the contents of the assignment and sample data

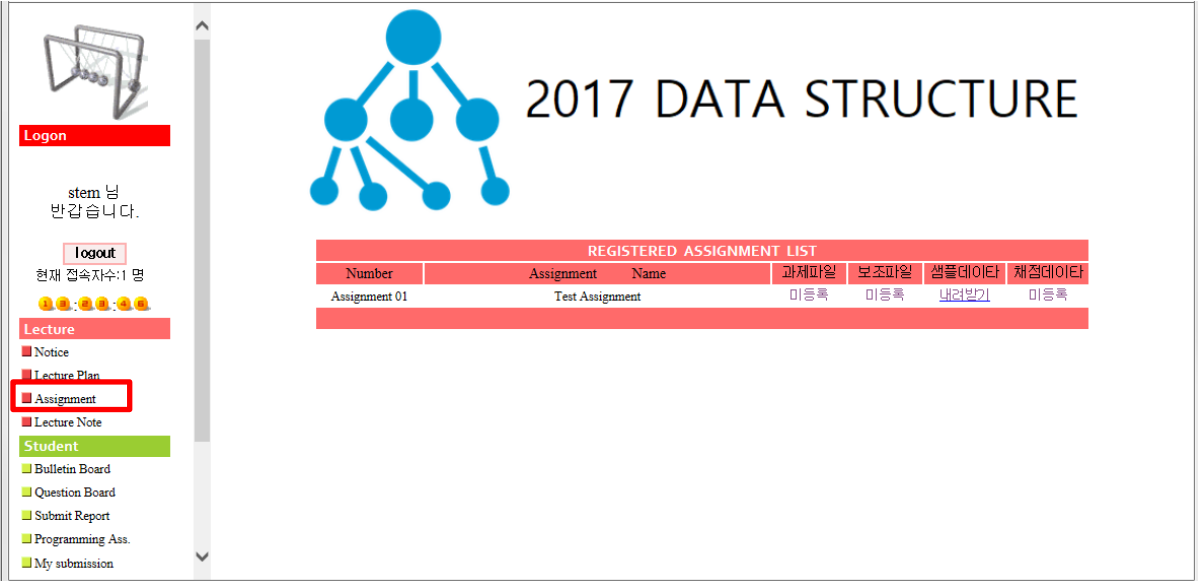
First, Click 'Assignment' menu.

You can download or view the text file containing the assignment by clicking '과제파일 내려받기 (Download assignment file)'.

Of course, you can also check it on the lecture site.

(<http://lik.pnu.kr/DataStructures/2019/DS2019.html>)

You can download tar compressed sample data by clicking on '샘플데이터 내려받기(Download sample data)'.

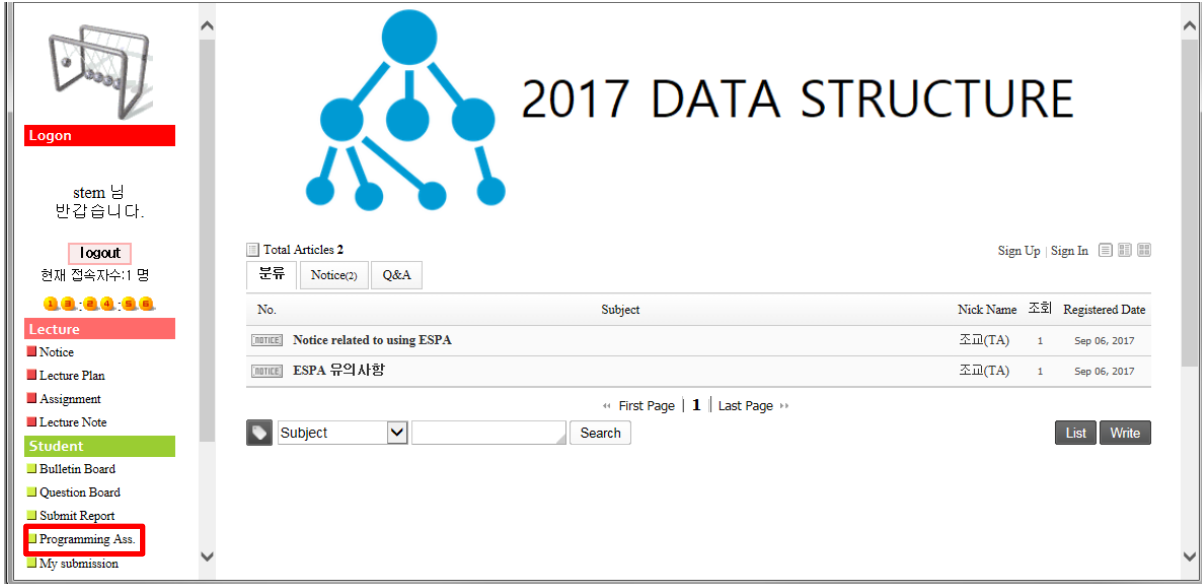


The screenshot shows a web portal interface for '2017 DATA STRUCTURE'. On the left is a sidebar menu with categories: Logon, Lecture, and Student. The 'Assignment' menu item is highlighted with a red box. The main content area features a tree diagram and a table titled 'REGISTERED ASSIGNMENT LIST'.

Number	Assignment Name	과제파일	보조파일	샘플데이터	채점데이터
Assignment 01	Test Assignment	미등록	미등록	<a href="#">내려받기</a>	미등록

# How to submit an assignment

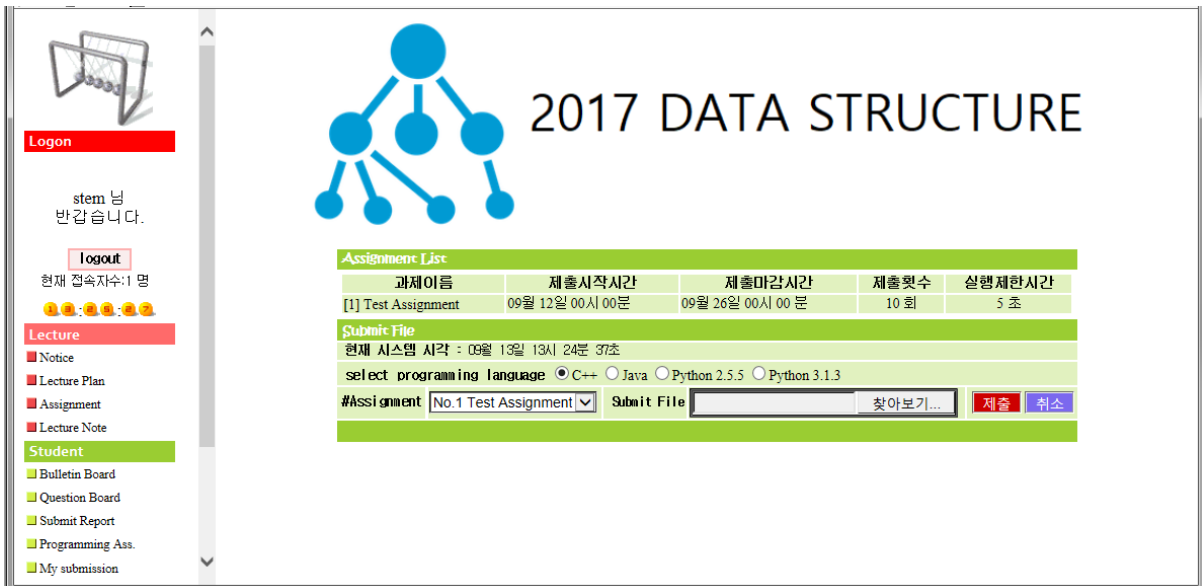
After signing in, click 'Programming Ass' menu.



First, select the assignment number.

Then, click '찾아보기(Browse)' button to select the source file you created.

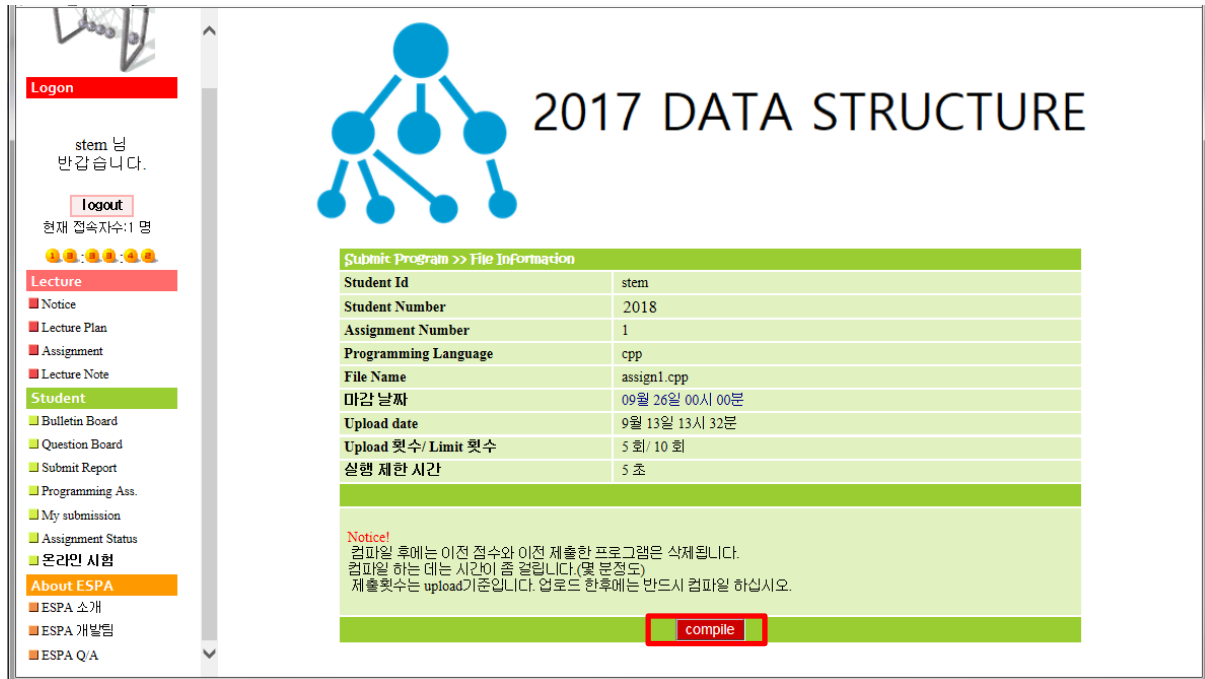
Finally, click '제출(Submit)' button.



The number of submissions is based on the number of uploads.

Therefore, once this screen appears, it is submitted once.

Click 'compile' button.



The screenshot shows a web application interface. On the left is a sidebar menu with categories: Logon, Lecture, Student, and About ESPA. The main content area features a tree diagram, the title '2017 DATA STRUCTURE', and a 'Submit Program >> File Information' table. Below the table is a 'Notice!' section and a 'compile' button.

Submit Program >> File Information	
Student Id	stem
Student Number	2018
Assignment Number	1
Programming Language	cpp
File Name	assign1.cpp
마감 날짜	09월 26일 00시 00분
Upload date	9월 13일 13시 32분
Upload 횟수/Limit 횟수	5 회 / 10 회
실행 제한 시간	5 초

**Notice!**  
컴파일 후에는 이전 점수와 이전 제출한 프로그램은 삭제됩니다.  
컴파일 하는 데는 시간이 좀 걸립니다.(몇 분정도)  
제출횟수는 upload기준입니다. 업로드 한후에는 반드시 컴파일 하십시오.

When compile button is pressed, after about 10 seconds to 1 minute elapses, the following screen appears. You can get a score(10) for one test input file. Up to 10 test input files can exist. In that case, the total score will be 100 points.

The screenshot shows a web application interface for '2017 DATA STRUCTURE'. The interface includes a navigation menu on the left, a main content area with a compile result and execution result table, and a status bar at the bottom.

**Navigation Menu:**

- Logon
- Logout
- Lecture
  - Notice
  - Lecture Plan
  - Assignment
  - Lecture Note
- Student
  - Bulletin Board
  - Question Board
  - Submit Report
  - Programming Ass.
  - My submission
  - Assignment Status
  - 온라인 시험
- About ESPA
  - ESPA 소개
  - ESPA 개발팀
  - ESPA Q/A

**Main Content Area:**

2017 DATA STRUCTURE

lib not included...  
Compile success... wait ...

Submit Program >> Compile Result

Assign number	1
File name	assign1.cpp
Compile date	2017-09-13:13:33:32
Compile message	success

Submit Program >> Execution Result

Data	Execution	Time	Result	Score
1	success	0	Perfect credit.	10
2	success	0	Perfect credit.	10
3	success	0	Perfect credit.	10
4	success	0	Perfect credit.	10
5	success	0	Perfect credit.	10
6	success	0	Perfect credit.	10
7	success	0	Perfect credit.	10
8	success	0	Perfect credit.	10
9	success	0	Perfect credit.	10
10	success	0	Perfect credit.	10
이전 총점		10		
현재 총점		100		
이전 총걸린시간		0		
총걸린시간		0		
점수 업데이트 정보	현재점수가 더 좋습니다. 현재 점수기록으로 갱신됩니다. 이번 총 시간으로 기록됩니다.			





## Notice related to using ESPA

1. The ESPA ID should be determined not to harm morality and common sense.
2. The name of the assignment file to upload is based on the name on the programming assignment page.

For example, if the assignment submission file is named 'example.cpp', the input file is named 'example.inp' and the output file is named 'example.out'.

3. If you compile with visual studio, you will get the correct answer, but if ESPA scoring is 'Incorrect', Since ESPA uses gcc at compile time, it is recommended that you test it first in gcc before uploading.