# SSDP :: PHP LAB 02

OBJECTIVE Use Object Oriented Programming With PHP

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REQUIREMENTS Write 2 PHP class files for the following:

**1: Student.php**

Properties:

- First name
- Last Name
- Student Number
- Number of students (a static variable)
- Institution (a constant with the string value 'BCIT')

Methods:

- Provide accessors for the first four properties described above.
- Provide mutators for the first three properties described above. Each of the mutators should ensure the incoming data is a string. Ensure the first and last names should are at least 2 characters long. The student number should be exactly 9 characters long. Use **is_string()** and **strlen()** to assist with this. If these mutators are provided unacceptable values, use the following values instead: **First name:** Jane **Last name:** Doe **Student number:** A00123456
- Provide a method called work() that displays the string **" Code, code, code, test. Code, test. Submit "**
- Include a function that will display all the details about the Student object, eg:

  **Student Info:**

  **Jane Doe, A00123456, BCIT**

  **Total students: 3**

Constructor/Destructor:

- The constructor should require 3 parameters for the student number and the first and last names. Use the constructor and destructor to keep track of how many Student objects are being created. Do not allow more than 20. If more than 20 Student objects are about to be created, the script should **die()**

**2: SSD_Student.php**

This class should inherit from Student.php.

- Over-ride the Student **work()** function so that it displays the string **" Code, code, test, submit **" (SSD students are more efficient than normal students)
- Add another method called **play()** that displays a string of your choice, eg: **" I'm going cross country skiing! ".** (SSD Students can make good use of the time they save working more efficiently)

**MORE ON NEXT PAGE**

Write a PHP script that loads all class files and demonstrates each by doing the following:

- Instantiate at least 2 Students and 1 SSD_Student.
- For at least one Student object, demonstrate all the public functions:

  **accessors, mutators, work()**

  Invoke the mutators with both valid and invalid data to illustrate their error handling
- For with the SSD_Student object, demonstrate all the public functions:

  **accessors, mutators, work()** and **play()**

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NOTES Choose the best visibility modifiers for Class properties and functions (**public**, **private** or **protected**).

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SUBMIT Upload all file(s) to the D2L drop box before the end of day (11:59pm).