**Constructor Property Promotion in PHP 8**

Constructor Property Promotion is a simple shorthand syntax to declare and assign class properties from the constructor. It basically tells the way data has to be treated in code. Constructor Property Promotion is a new syntax provided in the newer version of PHP 8 that allows class property declaration and constructor assignment, variable assignment right from the constructor without getting in the condition of boilerplate code. This avoids having to type the class property name and property type from many to just once. It also avoids using repeated types. Promoted properties can only be used in constructors. Properties will be assigned before the rest of the constructor code is executed.

**Note:** Not all constructor properties should be promoted, you can mix and match with promoted and normal properties, and it’s absolutely ok to combine them. Promoted properties mostly improve code quality.

**Example 1:** This example describes the basic usage of the Constructor Property Promotion in PHP 8.

|  |  |
| --- | --- |
| <?php  class GFG  {      public $name;      public $university;        // Boilerplate code      function \_\_construct($name, $university)      {          $this->name = $name;          $this->university = $university;      }      function get\_name()      {          return $this->name;      }      function get\_university()      {          return $this->university;      }  }    $a = new GFG("Atul Sisodiya", "JECRC");  echo $a->get\_name();   |  | | --- | | echo "<br>";  echo $a->get\_university();    ?> |   **Output:**  Atul Sisodiya  JECRC |

**Example 2:** After the latest update in PHP version 8, it provides Constructor Property Promotion of simpler syntax.

|  |
| --- |
| <?php  class GFG  {      public function \_\_construct(public string $name, public string $university)      {          $this->name = $name;          $this->university = $university;      }        function get\_name()      {          return $this->name;      }        function get\_university()      {          return $this->university;      }  }    $a = new GFG("Atul Sisodiya", "JECRC");  echo $a->get\_name();  echo "<br>";  echo $a->get\_university();    ?> |

**Output:**

Atul Sisodiya

JECRC