



*Universidad de las Fuerzas Armadas ESPE*

*Departamento de Ciencias de la Computación*

*Programación Integrativa de Componentes Web*

***Tarea 1***

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**NRC:** 16496

**Fecha de entrega:** 20/06/2024

**Tarea 1.1:** realizar una aplicación web con division por capas con HTML, CSS, JS e interaccion funcional de componentes web

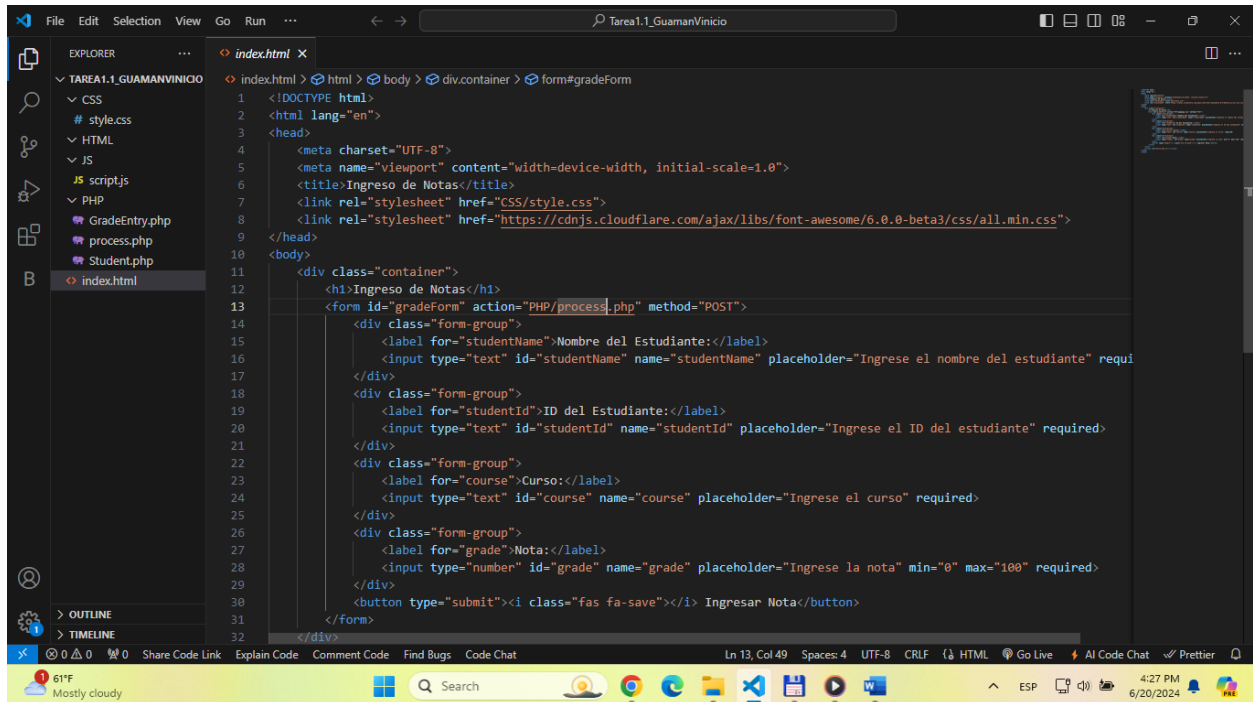
**OBJETIVO:** aplicar los fundamentos y principios de estructuras web agrupando elementos HTML, CSS, JS en diferentes capas y con una funcionalidad basado en estándares W3C.

**OBJETO DE APRENDIZAJE:** estructuras web HCJB (html, css, js, bootstramp)

**ACTIVIDADES DE APRENDIZAJE**

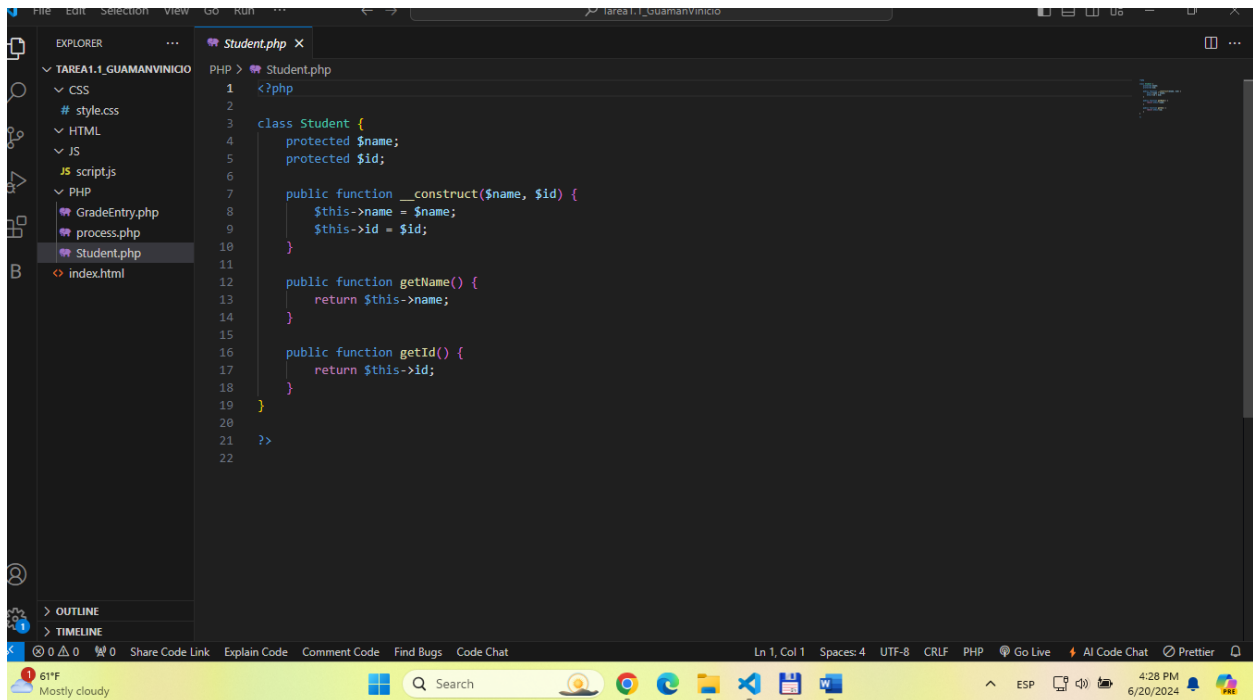
- Revisar el material propuesto por el docente Tutor y otras fuentes de repositorios web 2.0 adecuadas
- Generar una aplicación web que evidencie el manejo básico del DOM, desde JavaScript, hacia HTML con la estética creativa de diseño CSS/SASS. Usar una distribución lógica de separación por capas

# Index.html



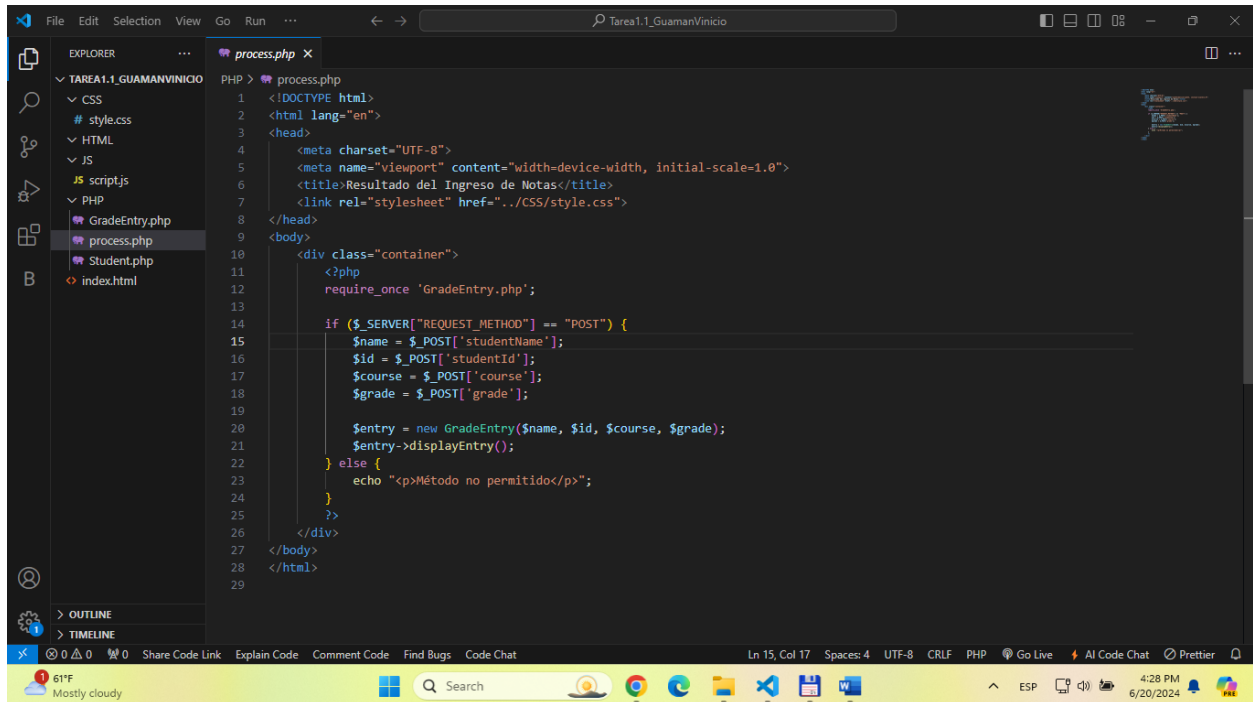
```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Ingreso de Notas</title>
7   <link rel="stylesheet" href="CSS/style.css">
8   <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css">
9 </head>
10 <body>
11   <div class="container">
12     <h1>Ingreso de Notas</h1>
13     <form id="gradeForm" action="PHP/process.php" method="POST">
14       <div class="form-group">
15         <label for="studentName">Nombre del Estudiante:</label>
16         <input type="text" id="studentName" name="studentName" placeholder="Ingrese el nombre del estudiante" required>
17       </div>
18       <div class="form-group">
19         <label for="studentId">ID del Estudiante:</label>
20         <input type="text" id="studentId" name="studentId" placeholder="Ingrese el ID del estudiante" required>
21       </div>
22       <div class="form-group">
23         <label for="course">Curso:</label>
24         <input type="text" id="course" name="course" placeholder="Ingrese el curso" required>
25       </div>
26       <div class="form-group">
27         <label for="grade">Nota:</label>
28         <input type="number" id="grade" name="grade" placeholder="Ingrese la nota" min="0" max="100" required>
29       </div>
30       <button type="submit"><i class="fas fa-save"></i> Ingresar Nota</button>
31     </form>
32   </div>
```

# Student.php



```
1 <?php
2
3 class Student {
4   protected $name;
5   protected $id;
6
7   public function __construct($name, $id) {
8     $this->name = $name;
9     $this->id = $id;
10  }
11
12  public function getName() {
13    return $this->name;
14  }
15
16  public function getId() {
17    return $this->id;
18  }
19 }
20
21 ?>
```

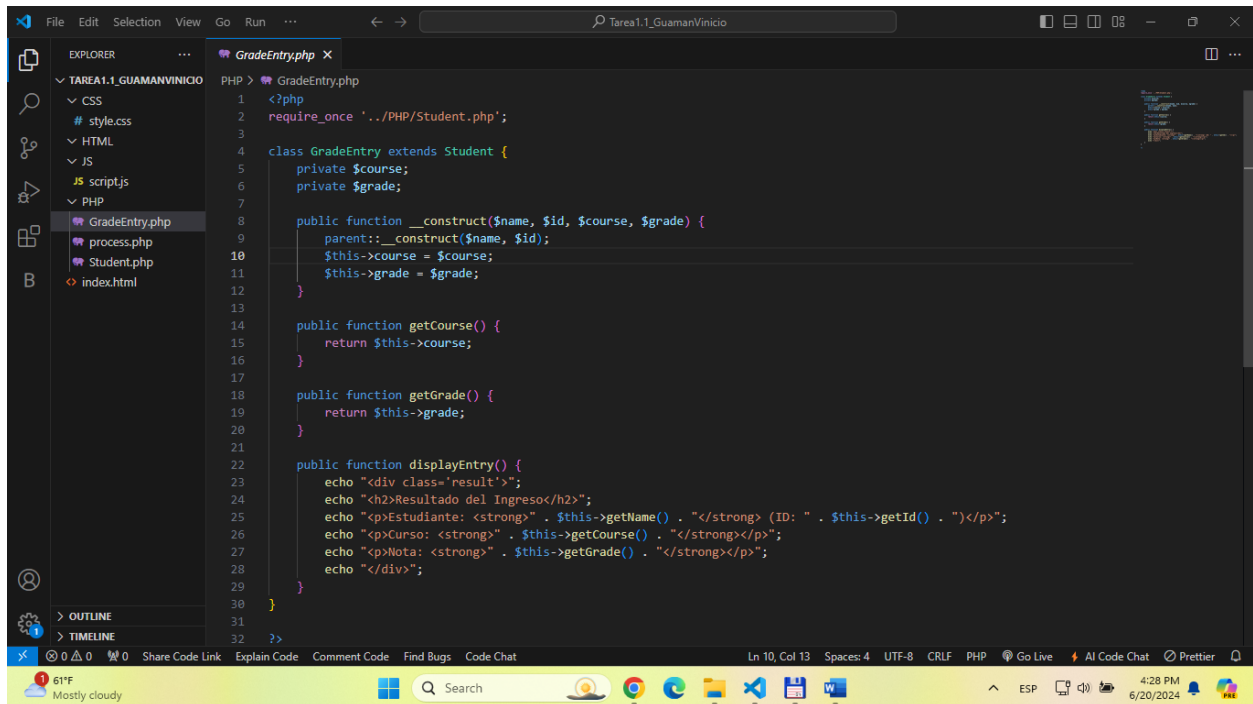
## Process.php



The screenshot shows the VS Code editor with the file explorer on the left displaying the project structure for 'TAREA1.1\_GUAMANVINICIO'. The 'process.php' file is selected and open in the editor. The code is a PHP script that handles a POST request to process a grade entry. It includes a header with HTML5 doctype, UTF-8 charset, and a viewport meta tag. The title is 'Resultado del Ingreso de Notas'. It includes a link to 'style.css'. The main logic is inside a <body> container, where it checks if the request method is POST. If so, it retrieves POST data for student name, ID, course, and grade, creates a new GradeEntry object, and calls displayEntry(). Otherwise, it echoes a message: 'Método no permitido'.

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Resultado del Ingreso de Notas</title>
7   <link rel="stylesheet" href="../CSS/style.css">
8 </head>
9 <body>
10   <div class="container">
11     <?php
12       require_once 'GradeEntry.php';
13
14       if ($_SERVER["REQUEST_METHOD"] == "POST") {
15         $name = $_POST['studentName'];
16         $id = $_POST['studentId'];
17         $course = $_POST['course'];
18         $grade = $_POST['grade'];
19
20         $entry = new GradeEntry($name, $id, $course, $grade);
21         $entry->displayEntry();
22       } else {
23         echo "<p>Método no permitido</p>";
24       }
25     }
26   </div>
27 </body>
28 </html>
29
```

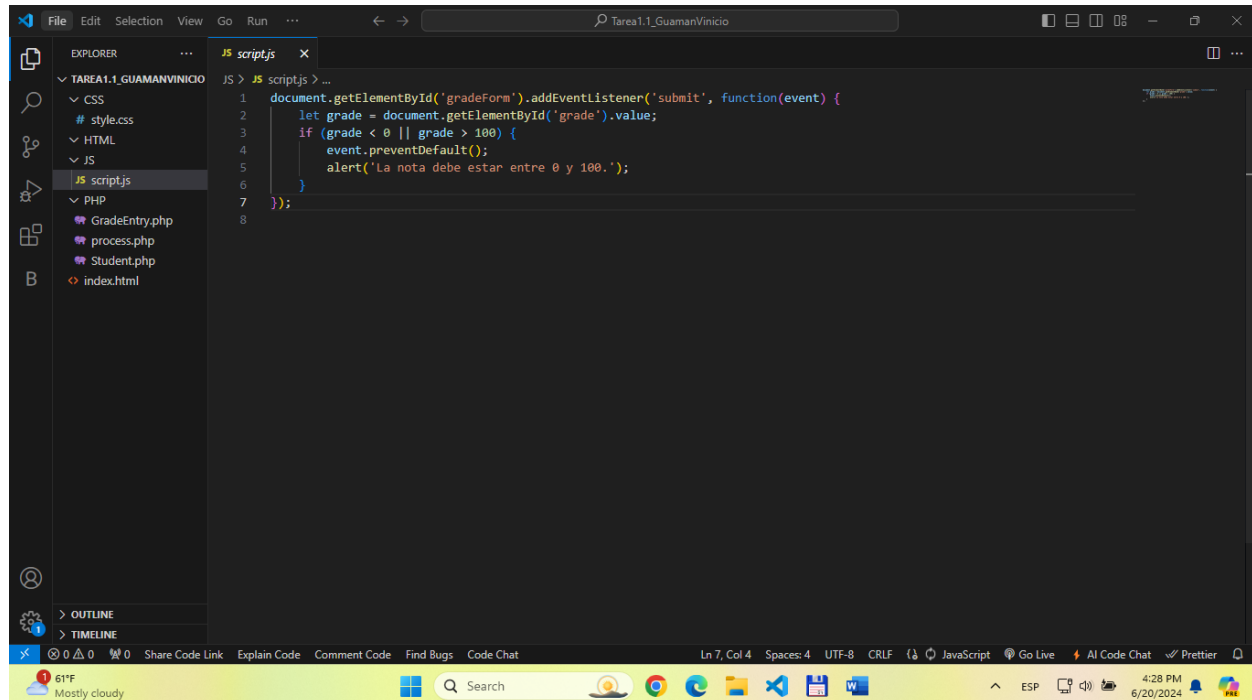
## GradeEntry.php



The screenshot shows the VS Code editor with the file explorer on the left displaying the project structure for 'TAREA1.1\_GUAMANVINICIO'. The 'GradeEntry.php' file is selected and open in the editor. The code defines a GradeEntry class that extends the Student class. It has private properties \$course and \$grade. The \_\_construct method takes \$name, \$id, \$course, and \$grade as arguments and calls the parent's \_\_construct method, then assigns \$course and \$grade to the object. It has public methods getCourse() and getGrade() that return the respective values. The displayEntry method echoes the result in HTML, showing the student's name, ID, course, and grade.

```
1 <?php
2 require_once '../PHP/Student.php';
3
4 class GradeEntry extends Student {
5   private $course;
6   private $grade;
7
8   public function __construct($name, $id, $course, $grade) {
9     parent::__construct($name, $id);
10    $this->course = $course;
11    $this->grade = $grade;
12  }
13
14  public function getCourse() {
15    return $this->course;
16  }
17
18  public function getGrade() {
19    return $this->grade;
20  }
21
22  public function displayEntry() {
23    echo "<div class='result'>";
24    echo "<h2>Resultado del Ingreso</h2>";
25    echo "<p>Estudiante: <strong>" . $this->getName() . "</strong> (ID: " . $this->getId() . ")</p>";
26    echo "<p>Curso: <strong>" . $this->getCourse() . "</strong></p>";
27    echo "<p>Nota: <strong>" . $this->getGrade() . "</strong></p>";
28    echo "</div>";
29  }
30 }
31
32 ?>
```

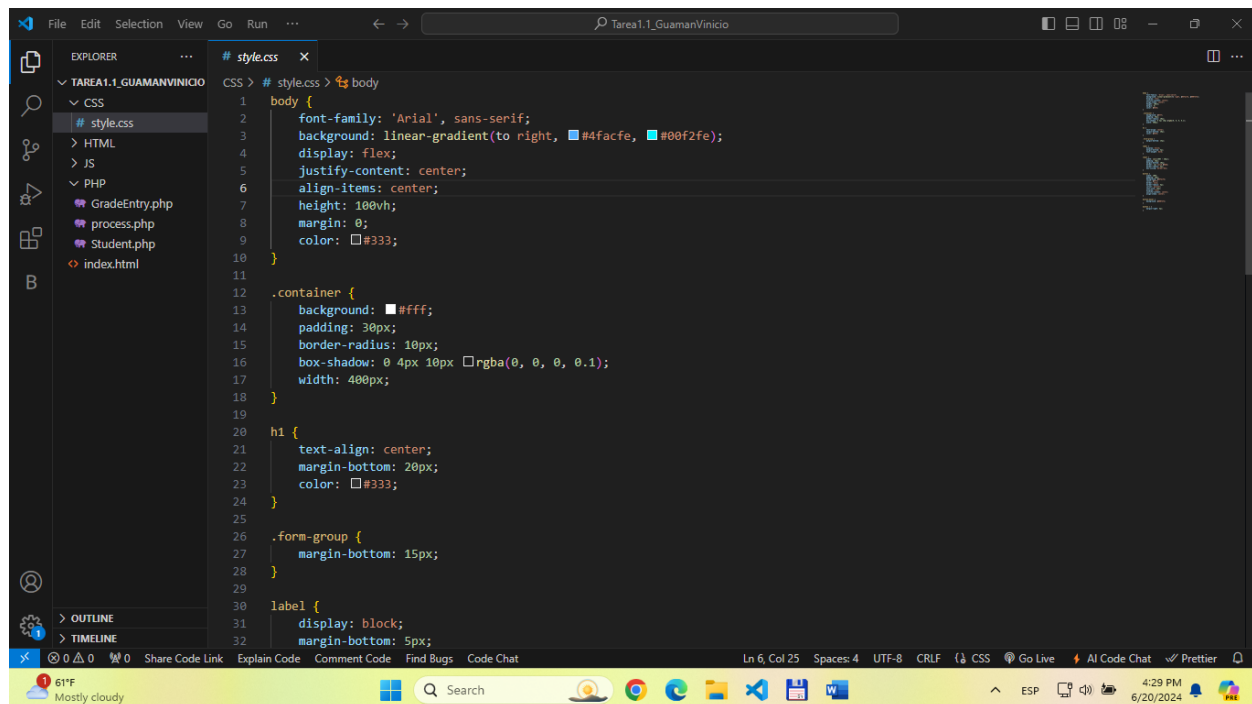
## Script.js



The screenshot shows the Visual Studio Code editor with the file 'script.js' open. The Explorer sidebar on the left shows a project named 'TAREA1.1\_GUAMANVINICIO' with files: 'style.css', 'HTML', 'JS', 'script.js', 'PHP', 'GradeEntry.php', 'process.php', 'Student.php', and 'index.html'. The 'script.js' file is selected and its content is displayed in the editor. The code is a JavaScript function that checks if a grade is between 0 and 100. The status bar at the bottom shows 'Ln 7, Col 4', 'Spaces: 4', 'UTF-8', 'CRLF', 'JavaScript', 'Go Live', 'AI Code Chat', and 'Prettier'.

```
1 document.getElementById('gradeForm').addEventListener('submit', function(event) {
2     let grade = document.getElementById('grade').value;
3     if (grade < 0 || grade > 100) {
4         event.preventDefault();
5         alert('La nota debe estar entre 0 y 100.');
```

## Style.css



The screenshot shows the Visual Studio Code editor with the file 'style.css' open. The Explorer sidebar on the left shows the same project 'TAREA1.1\_GUAMANVINICIO' with files: 'style.css', 'HTML', 'JS', 'PHP', 'GradeEntry.php', 'process.php', 'Student.php', and 'index.html'. The 'style.css' file is selected and its content is displayed in the editor. The code defines styles for the body, container, h1, form-group, and label. The status bar at the bottom shows 'Ln 6, Col 25', 'Spaces: 4', 'UTF-8', 'CRLF', 'CSS', 'Go Live', 'AI Code Chat', and 'Prettier'.

```
1 body {
2     font-family: 'Arial', sans-serif;
3     background: linear-gradient(to right, #4facfe, #00f2fe);
4     display: flex;
5     justify-content: center;
6     align-items: center;
7     height: 100vh;
8     margin: 0;
9     color: #333;
10 }
11
12 .container {
13     background: #fff;
14     padding: 30px;
15     border-radius: 10px;
16     box-shadow: 0 4px 10px rgba(0, 0, 0, 0.1);
17     width: 400px;
18 }
19
20 h1 {
21     text-align: center;
22     margin-bottom: 20px;
23     color: #333;
24 }
25
26 .form-group {
27     margin-bottom: 15px;
28 }
29
30 label {
31     display: block;
32     margin-bottom: 5px;
```

## Salida del programa

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### Ingreso de Notas

**Nombre del Estudiante:**

**ID del Estudiante:**

**Curso:**

**Nota:**

 Ingresar Nota