Practical 1 : Create a responsive web page which shows the ecommerce/college/exam admin dashboard with sidebar and statistics in cards using HTML, CSS and Bootstrap.

✅ Code Explanation (Line by Line)

- 🔷 **<!DOCTYPE html>**

  - Tells the browser you are writing **HTML5**.

- 🔷 **<html lang="en">**

  - Starts the HTML document and sets the language to **English**.

- 🔶 **<head> Section – For Page Setup**

<meta charset="UTF-8" />

- Tells the browser to use **UTF-8** encoding (supports all characters).

<meta name="viewport" content="width=device-width, initial-scale=1.0" />

- Makes the page **responsive** on mobile devices.

<title>Simple Admin Dashboard</title>

- Sets the **title of the page** (seen in the browser tab).

✅ Bootstrap CSS

<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css" rel="stylesheet" />

- Adds **Bootstrap 5.3** to use pre-built classes like row, card, bg-primary, etc.

- 🔶 **<style> Section – For Custom CSS**

body

- display: flex; makes sidebar and content sit side by side.
- flex-wrap: wrap; makes it wrap in mobile.

- min-height: 100vh; means full page height.

.sidebar

- Fixed width (max-width: 220px), dark background.
- Takes full height (height: 100vh), used for links.

.sidebar a

- Each link is white and styled to look clean.
- On hover, it gets **underlined**.

.main-content

- Takes rest of the space using flex: 1.
- Adds padding and light grey background.

.card:hover

- When mouse goes on a card, it **slightly zooms** using transform: scale(1.02).

@media (max-width: 768px)

- This CSS runs for small screens like mobile.
- It makes the sidebar full-width and stacks the layout vertically.

◆ <body> **Section – Actual Content**

◆ **Sidebar**

```
<div class="sidebar">
 <h4>Admin Panel</h4>
 <a href="#">Dashboard</a>
 <a href="#">Students</a>
 ...
</div>
```

- A vertical navigation menu.
- Contains section names like **Dashboard**, **Students**, **Exams**, etc.

◆ **Main Content**

```
<div class="main-content">
 <h2>Dashboard Overview</h2>
```

- This section shows data and statistics in cards.

◆ Bootstrap Grid Layout

<div class="row mt-4">
 <div class="col-md-4 mb-3">

- row: Bootstrap row for layout.
- col-md-4: 3 equal columns in medium to large screens.
- mb-3: margin bottom.

◆ Cards (Using Bootstrap)

Each card shows a summary:

1. Total Students

<div class="card bg-primary text-white">

- Blue background, white text.

2. Exams Conducted

<div class="card bg-success text-white">

- Green background, white text.

3. Total Revenue

<div class="card bg-warning text-dark">

- Yellow background, black text.

Each card has:

- A **title** (h5)
- A **number** (<p class="fs-4">) — fs-4 increases font size.

🎯 What You Can Tell the External

"I created a simple Admin Dashboard using **HTML**, **CSS**, and **Bootstrap**.
The page is divided into two main parts: a **sidebar** on the left and a **main content** area.
I used Bootstrap classes like row, col-md-4, and card for layout and styling.

I added some custom CSS for layout and hover effects.
The page is also **responsive** – it adjusts properly on mobile using a media query."