

PREREQUISITES - SOFTWARE

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The screenshot shows a web browser with multiple tabs. The active tab is titled "Python 3.10 And Its New Features" and displays the URL analyticsindiamag.com/python-3-10-and-its-new-features/. The page features the IIM Calcutta logo and navigation links: Topics, Connect with Peers, Partner with us, and Contact us. A list of new features and updates for Python 3.10 is displayed, including new syntax features, PEP 634 and 635 on Structural Pattern Matching, PEP 636 on Structural Pattern Matching Tutorial, Bpo-12782 on Parenthesized context managers, new features in the standard library, PEP 626 on Add Optional Length, interpreter improvements, PEP 626 on precise line numbers, new typing features, PEP 604 on Allowing writing union types, PEP 613 on Explicit type aliases, PEP 612 on Parameter specification variables, and important deprecations like PEP 644, PEP 632, and PEP 623. A sidebar on the right contains an advertisement for IIM Calcutta's ONE-YEAR ADVANCED PROGRAMME IN DATA SCIENCES. Below the list of features, a section titled "Our Upcoming Events" is visible. The Windows taskbar at the bottom shows the search bar, taskbar icons, and system tray with a temperature of 83°F and date 07-11-2022.

- New syntax features
- PEP 634: Structural Pattern Matching- Specification
- PEP 635: Structural Pattern Matching- Motivation and Rationale
- PEP 636: Structural Pattern Matching- Tutorial
- Bpo-12782: Parenthesized context managers (This feature allows formatting a long collection of context managers in multiple lines).
- New feature in the standard library
- PEP 626 – Add Optional Length – Checking to zip
- Interpreter improvements
- PEP 626 – precise line numbers for debugging and other tools.
- New typing features
- PEP 604 – Allowing writing union types as X | Y
- PEP 613 – Explicit type aliases
- PEP 612 – Parameter specification variables
- Important deprecations, removals or restrictions:
- PEP 644 – Require OpenSSL 1.1.1 or newer
- PEP 632 – Deprecate distutils module
- PEP 623 – Deprecate and prepare for the removal of the wstr member in

The screenshot shows a "Python 3.7.0 Shell" window. The title bar includes "Python 3.7.0 Shell" and standard window controls. The menu bar contains "File", "Edit", "Shell", "Debug", "Options", "Window", and "Help". The main text area displays the following information: "Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2019, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32", "Type 'copyright', 'credits' or 'license()' for more information.", and a prompt ">>>". The Windows taskbar at the bottom is identical to the one in the first screenshot, showing the search bar, taskbar icons, and system tray with a temperature of 83°F and date 07-11-2022.