

# TOPIC:-

## Price Comparison using Webscraping and Data Analysis

**Sure! Here's a simplified explanation of the provided code:**

1. The code is written in Python and uses several libraries: ``requests``, ``BeautifulSoup``, and ``tkinter``.
2. The purpose of the code is to create a graphical user interface (GUI) application that allows users to search for a product and compare its prices on Flipkart and GadgetsNow.
3. The application uses web scraping techniques to extract product information from the Flipkart and GadgetsNow websites.
4. The ``search_flipkart`` function takes a product name as input, constructs a search URL for Flipkart, sends a request to the website, and uses BeautifulSoup to parse the HTML response.
5. The function finds the product name and price elements on the page and extracts their text values.
6. The ``search_gadgetsnow`` function is similar to ``search_flipkart`` but works for the GadgetsNow website.
7. The ``extract_numeric_price`` function takes a price string and removes any non-numeric characters to convert it to a numerical format.
8. The ``compare_prices`` function is called when the user clicks the "Search" button. It retrieves the product name from the search entry, calls the search functions for both websites, and compares the prices.
9. The result is displayed in the GUI, indicating the product name and the cheapest price between Flipkart and GadgetsNow.
10. The ``open_product_link`` function is called when the user clicks the "Get Product" button. It retrieves the product name, searches for the product on the respective website, and opens the product link in a web browser.
11. The code also creates a Tkinter window with different sections: search, Flipkart results, GadgetsNow results, cheapest price, and the "Get Product" button.
12. The Tkinter window allows users to enter a product name, perform the search, and view the results.

Overall, the code combines web scraping, GUI development, and basic price comparison functionality to provide users with a simple interface to search for and compare product prices on Flipkart, GadgetsNow, CompairRaja.