**PROJECT NAME - E-commerce Price Comparator.**

**NAME - SWATI PRIYA**

**MILESTONES ACHIEVED -**

1**.Google search first url-**

For a searched keyword the google's first url is extracted and corresponding the webpage is opened.

2**.Flipkart's first item with price and image-**

On the second page of GUI the details of flipkart's first item searched by the user is displayed . The various details include are as follows - 'the product image' , 'product name ' ,'product price' , 'product rating' ,'highlighted details' and a button is located at the bottom of the GUI page , on clicking it takes you directly to the corresponding product's official page on flipkart . And a compare button is added which takes you to the next page where the comparison is done.

3.**Comparing price across E-commerce websites-**

User can compare products across the following e-commerce websites:

(1).https://www.flipkart.com

(2).<https://paytmmall.com>

(3).https://www.amazon.in

4. **Additionals -**

GUI has an introduction page which contains a description about the application . Second page contains flipkart's details about a specific product which is searched. The following specifications are added for various products : 'the product image' , 'product name' , 'product price ', 'product rating' , 'highlighted details' and a button is located at the bottom of the GUI page , on clicking it takes you directly to the corresponding product's official page on flipkart .The GUI has an icon .

**TECH STACK -**

The web scraping project is designed using python . The various packages used in the python program are : Tkinter , PIL , webbrowser, io.

**DESCRIPTION** -

On running the python file one GUI window is displayed on the screen . GUI has an introduction page which contains a description about the application . Second page contains flipkart's details about a specific product which is searched. The following specifications are added for various products : 'the product image' , 'product name' , 'product price ', 'product rating' , 'highlighted details' and a button is located at the bottom of the GUI page , on clicking it takes you directly to the corresponding product's official page on flipkart . And a comparison button is added to the end of the page where the price comparison is done.

**UNIQUE-**

The perfect functioning of GUI which is similar to any other search engine .Flipkart's GUI page consists of the product image , name , price , rating and highlights. You can search for any product like phone , tv , ac , laptop , furniture , accessories , groceries , etc..

I have displayed the details in separate pages . GUI is friendly because of the proper functionality of the button click. I have tried to display the maximum details of products on flipkart's GUI page .I have made a folder named “demo” which has various screenshots of the functionality of this project .

**PROBLEMS FACED -**

Firstly I started working on pycharm(professional version), but it didn't work properly .The major problem faced while making this project was getting errors . Extraction of product image was very difficult for products like books , groceries ,etc. I could not scrap the amazon website because of an access problem.

**SCOPE OF IMPROVEMENT -**

The additional features that can be added to this project is including more websites like snapdeal , shopclues , etc...

Currently I have not included these websites because of lack of major products like oneplus phones , apple iphones and many more.

**WHAT DID I LEARN FROM THIS PROJECT -**

I have learned python from scrap . I learned about the various python packages . This project taught me how to debug and then handle the errors.The most important thing that I learned is time management and proper planning that is required to make a project .