

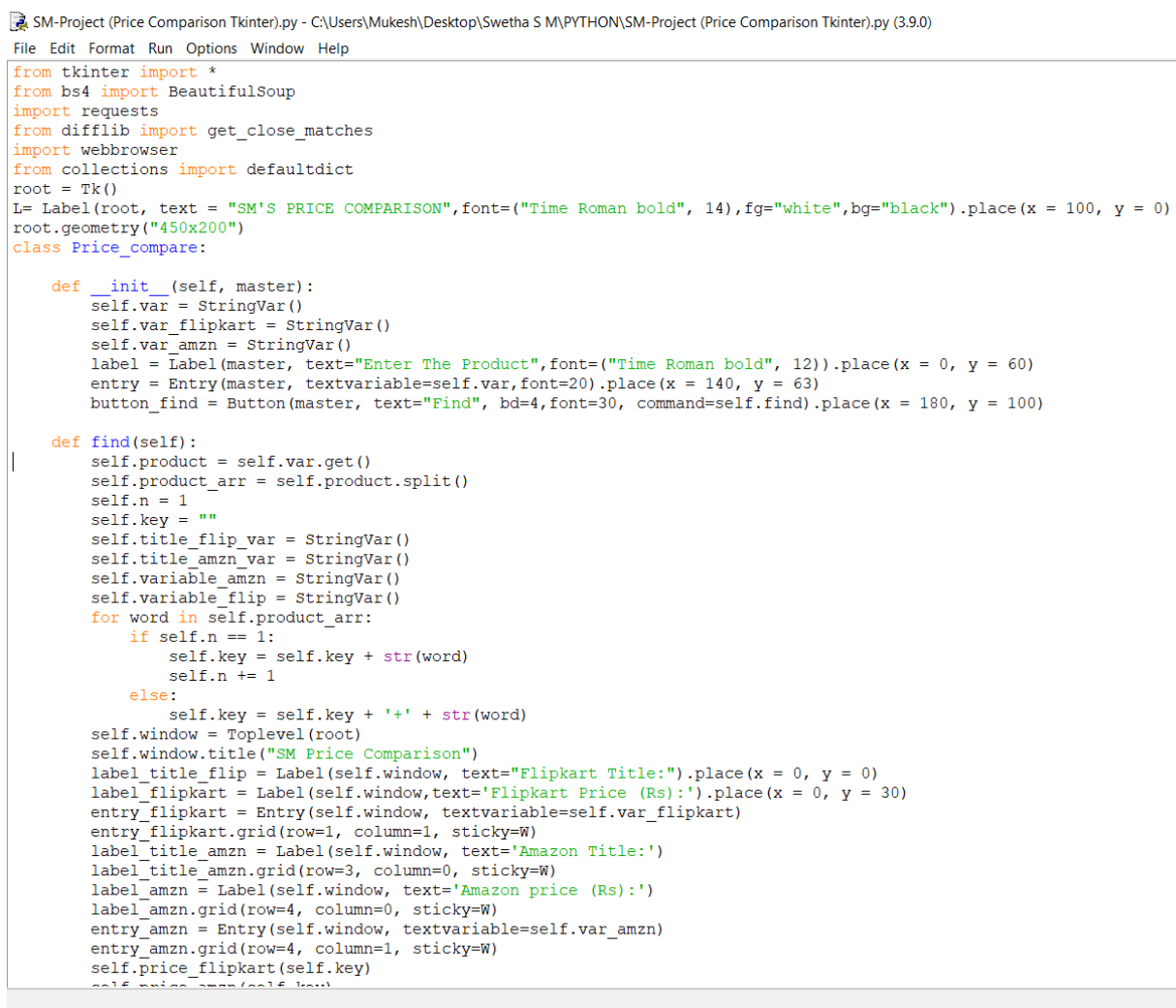
Name: **SWETHA S M**

Project: **PRICE COMPARISON**

INTRODUCTION:

The project is about Web Scrapping & analyzing prices between multiple websites.

PROJECT REPORT:

A screenshot of a Python Tkinter application titled "SM-Project (Price Comparison Tkinter).py". The code is displayed in a text editor with a menu bar (File, Edit, Format, Run, Options, Window, Help). The code imports modules like tkinter, BeautifulSoup, requests, difflib, webbrowser, and collections. It defines a Tk window with a title "SM'S PRICE COMPARISON" and a geometry of 450x200. A class "Price_compare" is defined with methods for initialization and finding product prices. The initialization method sets up labels and entry fields for product name, Flipkart title, Flipkart price, Amazon title, and Amazon price. The find method processes the product name, splits it into words, and uses difflib to find matches on Flipkart and Amazon websites. It then displays the titles and prices for the found products in the Tk window.

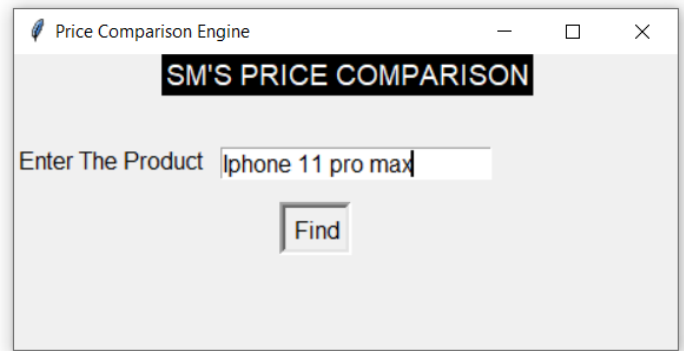
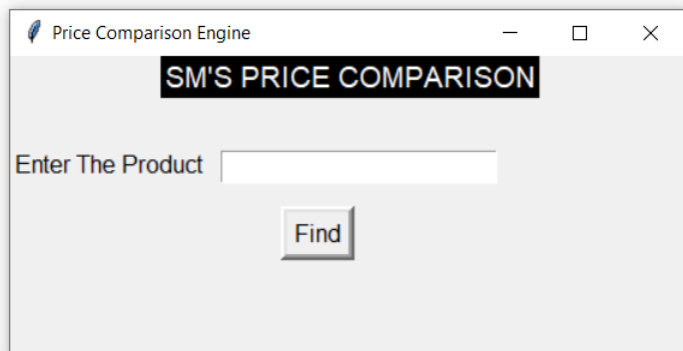
```
SM-Project (Price Comparison Tkinter).py - C:\Users\Mukesh\Desktop\Swetha S M\PYTHON\SM-Project (Price Comparison Tkinter).py (3.9.0)
File Edit Format Run Options Window Help
from tkinter import *
from bs4 import BeautifulSoup
import requests
from difflib import get_close_matches
import webbrowser
from collections import defaultdict
root = Tk()
L= Label(root, text = "SM'S PRICE COMPARISON",font=("Time Roman bold", 14),fg="white",bg="black").place(x = 100, y = 0)
root.geometry("450x200")
class Price_compare:

    def __init__(self, master):
        self.var = StringVar()
        self.var_flipkart = StringVar()
        self.var_amzn = StringVar()
        label = Label(master, text="Enter The Product",font=("Time Roman bold", 12)).place(x = 0, y = 60)
        entry = Entry(master, textvariable=self.var,font=20).place(x = 140, y = 63)
        button_find = Button(master, text="Find", bd=4,font=30, command=self.find).place(x = 180, y = 100)

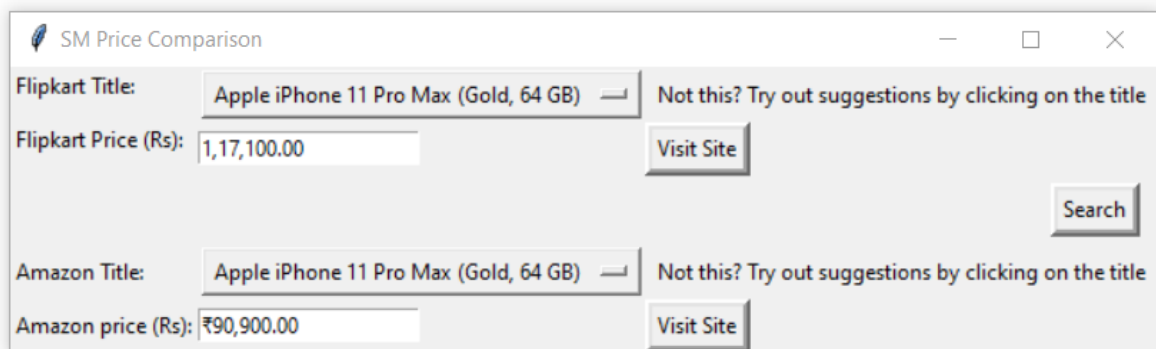
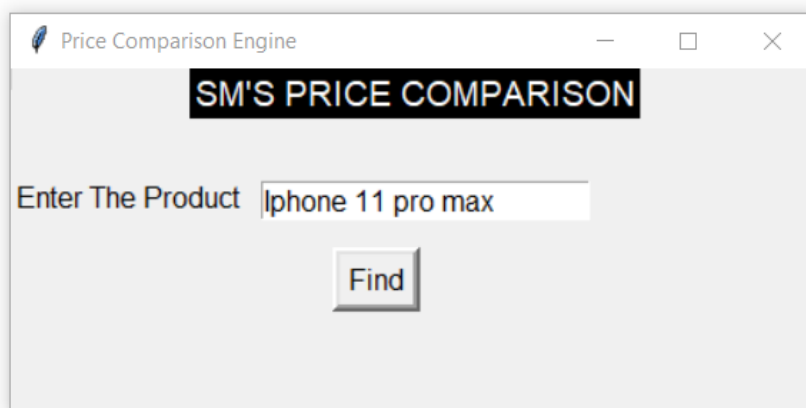
    def find(self):
        self.product = self.var.get()
        self.product_arr = self.product.split()
        self.n = 1
        self.key = ""
        self.title_flip_var = StringVar()
        self.title_amzn_var = StringVar()
        self.variable_amzn = StringVar()
        self.variable_flip = StringVar()
        for word in self.product_arr:
            if self.n == 1:
                self.key = self.key + str(word)
                self.n += 1
            else:
                self.key = self.key + '+' + str(word)
        self.window = Toplevel(root)
        self.window.title("SM Price Comparison")
        label_title_flip = Label(self.window, text="Flipkart Title:").place(x = 0, y = 0)
        label_flipkart = Label(self.window,text='Flipkart Price (Rs):').place(x = 0, y = 30)
        entry_flipkart = Entry(self.window, textvariable=self.var_flipkart)
        entry_flipkart.grid(row=1, column=1, sticky=W)
        label_title_amzn = Label(self.window, text='Amazon Title:')
        label_title_amzn.grid(row=3, column=0, sticky=W)
        label_amzn = Label(self.window, text='Amazon price (Rs):')
        label_amzn.grid(row=4, column=0, sticky=W)
        entry_amzn = Entry(self.window, textvariable=self.var_amzn)
        entry_amzn.grid(row=4, column=1, sticky=W)
        self.price_flipkart(self.key)
        self.price_amzn(self.key)
```

As we see I have used **Tkinter** as my main module and I have also used **BeautifulSoup** for web scrapping. So later I have defined flipkart ,amazon and added required soup code for web scrapping and to obtain the product details and price of the product. Check out GitHub for full code.

OUTPUT:



After running the program we get the search engine where we can enter any product for comparing the price.



On clicking the find button the price comparisons open. we can see the amazon price is lesser compared to flipkart. To enquiry the product detail we can visit the main site by clicking the **visit site** button.

Apple iPhone 11 Pro Max (64 GB) x +

flipkart.com/apple-iphone-11-pro-max-gold-64-gb/p/itm6ef18218efd6?pid=MOBFKCTSAAPAYNSGG&lid=LSTMOBFKCTSAAPAYNSGGKWDGRM&marketplace=FLIPKART&sno=s_1_9&otracker=search&f...

Apps Gmail Kyoushitsu Dashboard Notes Notes Notes YouTube Netflix Prime Video openScope animepahe SM_Swe's Anime List WhatsApp Amagami SS

Flipkart Explore Plus Search for products, brands and more Login More Cart

Electronics TVs & Appliances Men Women Baby & Kids Home & Furniture Sports, Books & More Flights Offer Zone Grocery

Home > Mobiles & Ac... > Mobiles > Apple Mobiles > Apple iPhone ...

Apple iPhone 11 Pro Max (Gold, 64 GB)

4.7 ★ 1,064 Ratings & 104 Reviews Assured

₹1,17,100

Sold Out

This item is currently out of stock.

Buy without Exchange

Buy with Exchange up to ₹14,750 off

Exchange not available at pincode (600041)

SM Price Comparison

Flipkart Title: Apple iPhone 11 Pro Max (Gold, 64 GB) Not this? Try out suggestions by clicking on the title

Flipkart Price (Rs): 1,17,100.00 Visit Site

Search

Amazon Title: Apple iPhone 11 Pro Max (Gold, 64 GB) Not this? Try out suggestions by clicking on the title

Amazon price (Rs): ₹90,900.00 Visit Site

₹117,100

Brand Warranty for 1 Year Know More

Color

Highlights

64 GB ROM

Easy Payment

No cost EMI starting from ₹13,012/month

Price Comparison Engine

12:30 16-12-2020

Apple iPhone 11 Pro Max (64GB) x +

amazon.in/Apple-iPhone-Pro-Max-64GB/dp/B07XVM1JFV/ref=sr_1_5?dchild=1&keywords=iphone+11+pro+max&qid=1608102069&sr=8-5

Apps Gmail Kyoushitsu Dashboard Notes Notes Notes YouTube Netflix Prime Video openScope animepahe SM_Swe's Anime List WhatsApp Amagami SS

amazon.in All iphone 11 pro max

Hello, Sign in Account & Lists Returns & Orders Try Prime Cart

Gift Cards Best Sellers Mobiles Today's Deals New Releases Computers Customer Service Amazon Pay Gift Ideas Shopping made easy | Download the app

Apple Products iPhone iPad Apple Watch MacBook Mac Desktops Apple TV Accessories Beats by Dr. Dre

iPhone

iPhone 12 Pro Max iPhone 12 Pro iPhone 12

Apple iPhone 11 Pro Max (64GB) - Gold

Visit the Apple Store

★★★★★ 38 ratings | 35 answered questions

Amazon's Choice for "iphone 11 pro max"

M.R.P.: ₹1,09,900.00

Price: ₹99,900.00 Fulfilled FREE Delivery. Details

You Save: ₹10,000.00 (9%) Inclusive of all taxes

Delivery by: Sunday, Dec 20 Details

Fastest delivery: Friday, Dec 18

Order within 3 hrs and 58 mins Details

EMI starts at ₹4,703. No Cost EMI available EMI options

In stock.

Sold by Appario Retail Private Ltd and Fulfilled by Amazon.

10-day replacement only

Brand Apple

Colour

Price Comparison Engine

12:31 16-12-2020

SM Price Comparison

Flipkart Title: Apple iPhone 11 Pro Max (Gold, 64 GB) Not this? Try out suggestions by clicking on the title

Flipkart Price (Rs): 1,17,100.00 Visit Site

Search

Amazon Title: Apple iPhone 11 Pro Max (Gold, 64 GB) Not this? Try out suggestions by clicking on the title

Amazon price (Rs): ₹90,900.00 Visit Site

With Exchange Up to ₹14,250.00 off

Without Exchange ₹99,900.00 ₹1,09,900.00

Quantity: 1

Add to Cart

Buy Now

Secure transaction

Buy this item as a gift

Add an Accessory:

Apple AirPods with Charging Case ₹12,490.00

Pods Pro ₹20,999.00

The main site open's as we see the price is same in both search engine and the main site so using this we can compare price between different product.

We can also search for the same product with different color and variant by selecting the required product from the drop down menu.

The screenshot shows a web application window titled "SM Price Comparison". It features two main sections for product selection. The top section is for Flipkart, with a "Flipkart Title:" dropdown menu currently showing "Apple iPhone 11 Pro Max (Gold, 64 GB)". To its right is a text prompt "Not this? Try out suggestions by clicking on the title" and a "Search" button. Below this is the "Flipkart Price (Rs):" field, which is currently empty. The bottom section is for Amazon, with an "Amazon Title:" dropdown menu also showing "Apple iPhone 11 Pro Max (Gold, 64 GB)". To its right is another text prompt "Not this? Try out suggestions by clicking on the title". Below this is the "Amazon price (Rs):" field, which is also empty. A large dropdown menu is open, displaying a list of 12 product variants for the Apple iPhone 11 Pro Max, including different colors (Gold, Silver, Space Grey, Midnight Green) and storage capacities (64 GB, 512 GB, 256 GB).

This screenshot shows the same application window after a search. The "Flipkart Title:" dropdown remains "Apple iPhone 11 Pro Max (Gold, 64 GB)". The "Flipkart Price (Rs):" field now displays "1,17,100.00". A "Visit Site" button has appeared next to the price field. The "Amazon Title:" dropdown remains "Apple iPhone 11 Pro Max (Gold, 64 GB)". The "Amazon price (Rs):" field is still empty. The same dropdown menu of 12 product variants is open, showing the same list of options as in the previous screenshot.

CONCLUSION:

We have successfully obtained the required output for the project.

