Name: **SWETHA S M**

Project: **PRICE COMPARISON**

INTRODUCTION:

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

PROJECT REPORT:

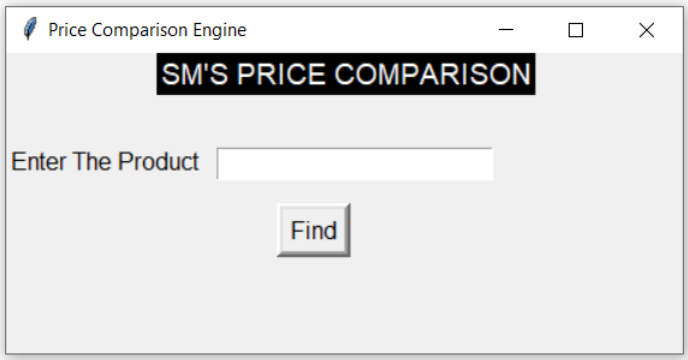
SM-Project (Price Comparison Tkinter).py - C:\Users\Mukesh\Desktop\Swetha S M\PYTHON\SM-Project (Price Comparison Tkinter).py (3.9.0)

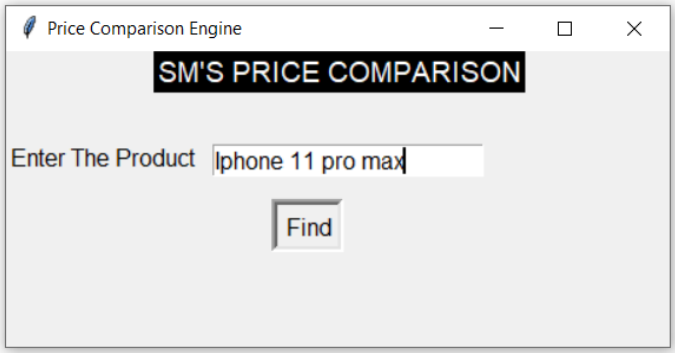
File Edit Format Run Options Window Help

```
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)
```

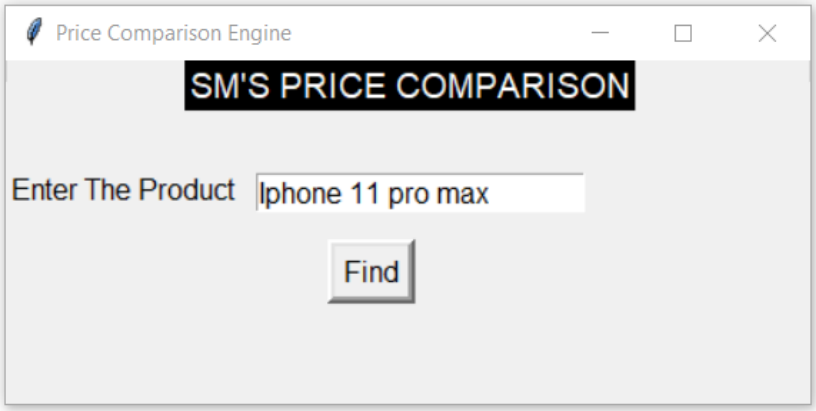
As we see I have used **Tkinter** as my main module and I have also used **BeautifulSoup** for web scrapping. So later I have defined flipkart ,amazon and added required soup code for web scrapping and to obtain the product details and price of the product. Check out GitHub for full code.

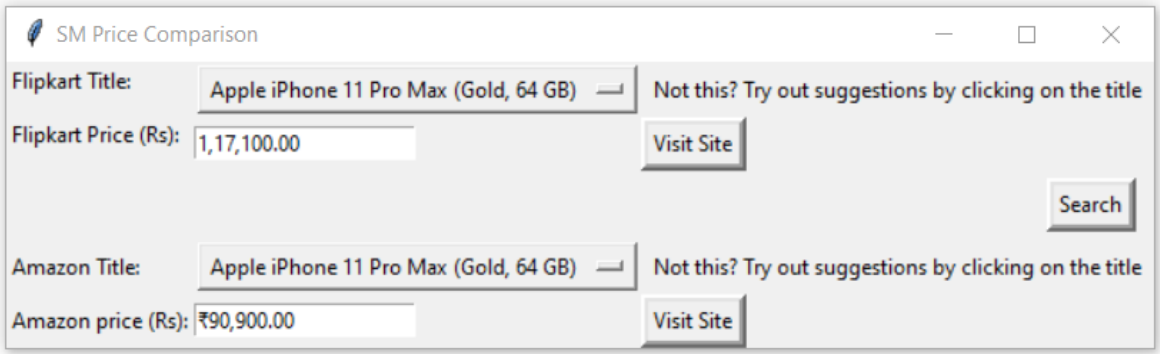
OUTPUT:



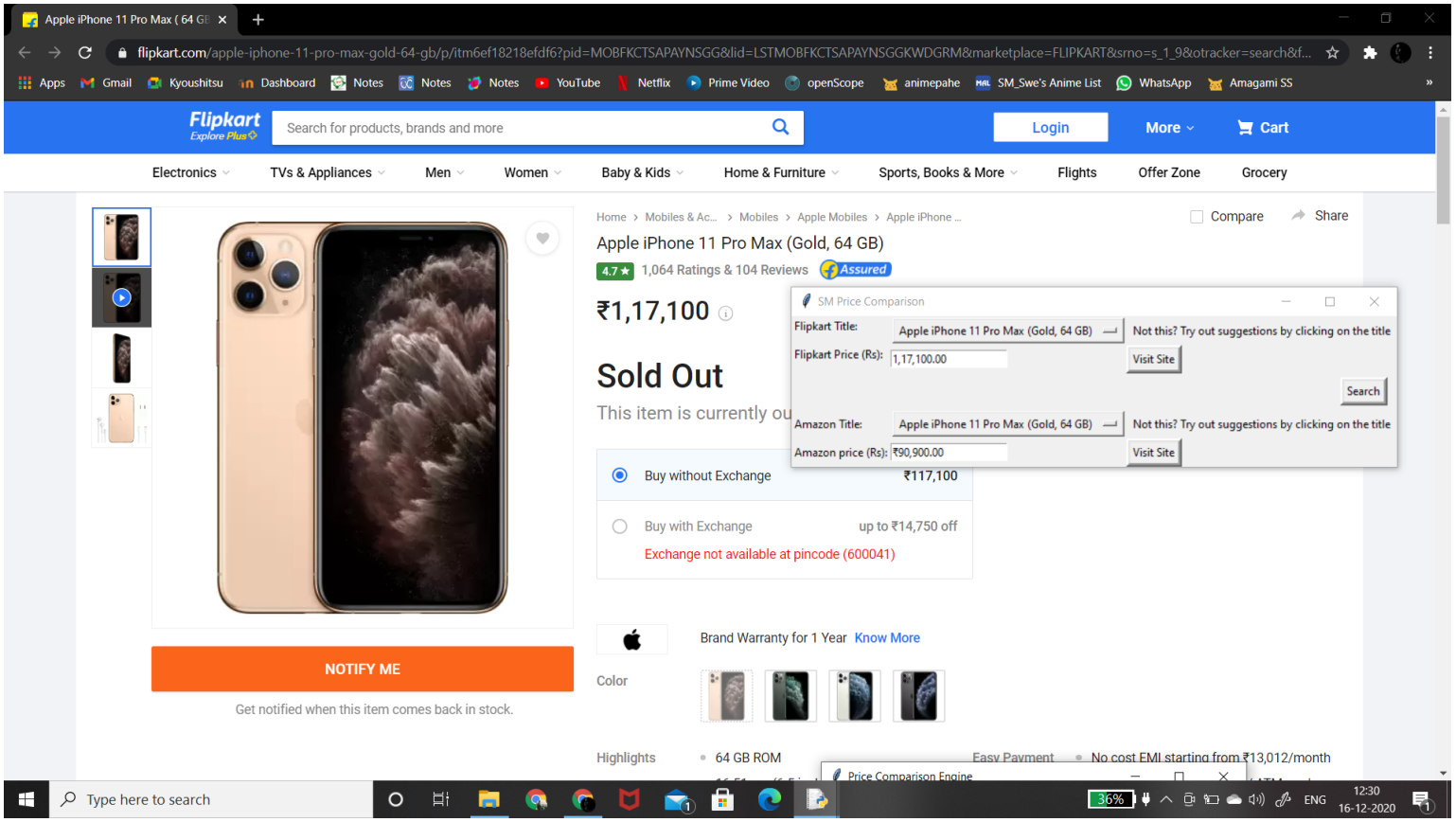


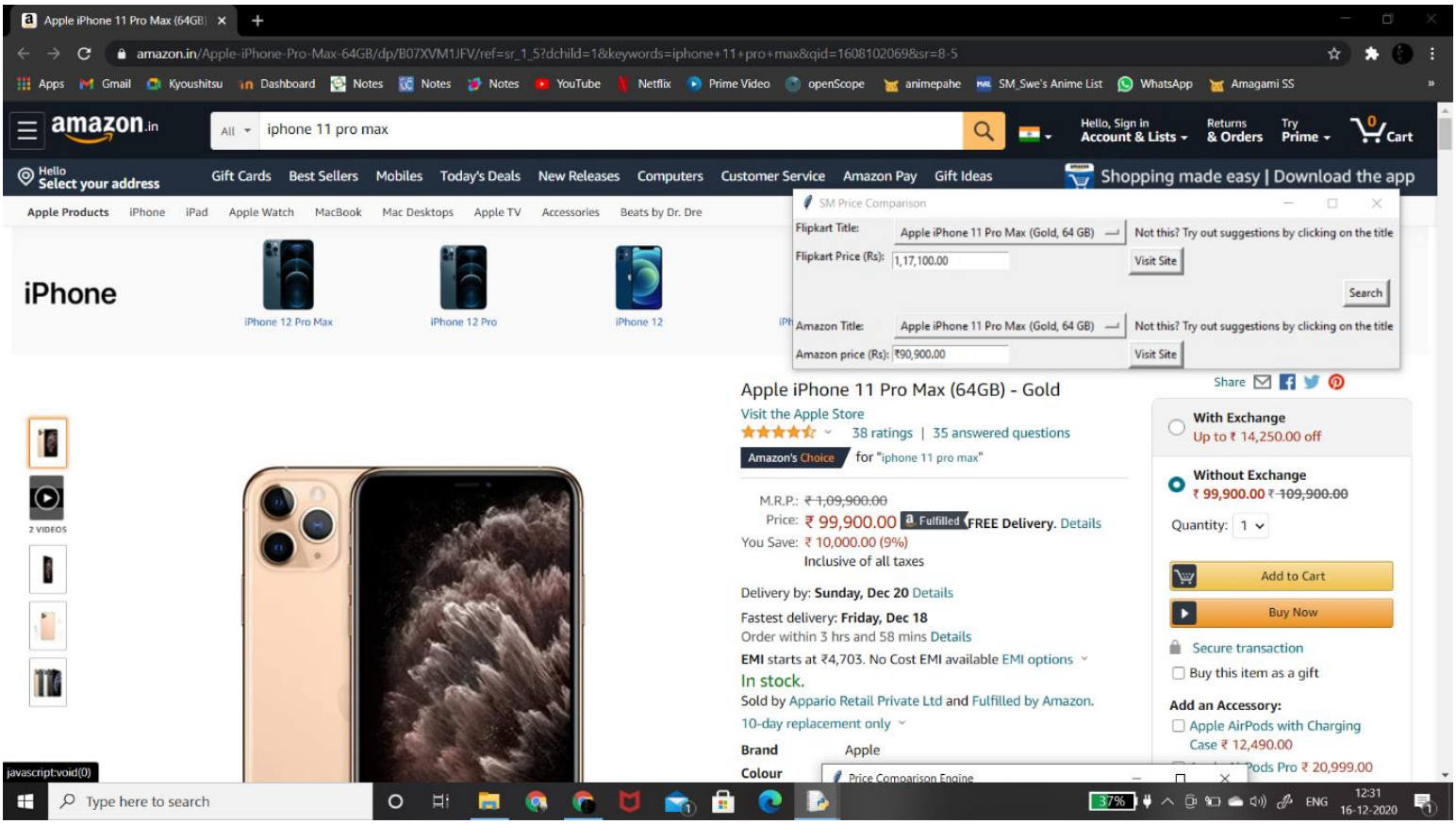
After running the program we get the search engine were we can enter any product for comparing the price.





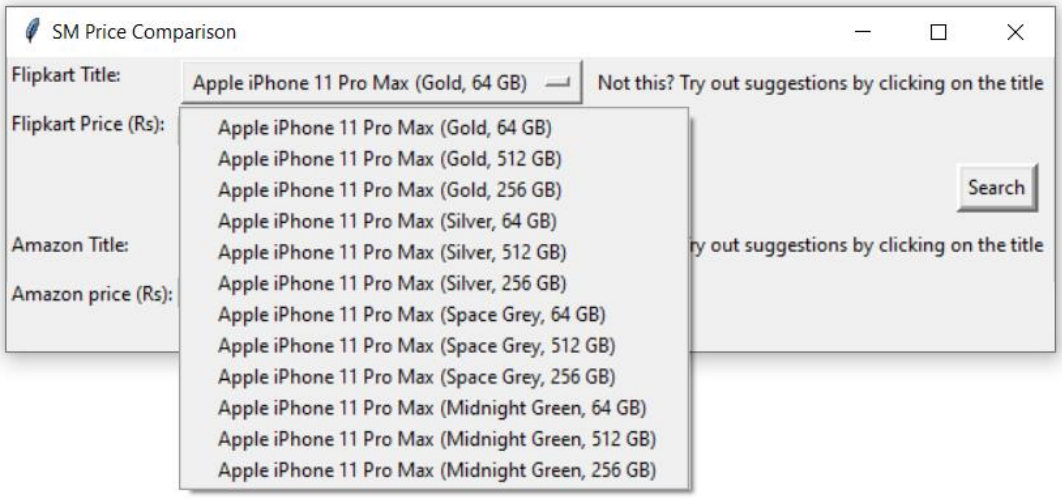
On clicking the find button the price comparisons open. we can see the amazon price is lesser compared to flipkart. To enquiry the product detail we can visit the main site by clicking the **visit site** button.


Apple iPhone 11 Pro Max (64 GB
flipkart.com/apple-iphone-11-pro-max-gold-64-gb/p/itm6ef18218efdf6?pid=MOBFKCTSAPAYNSGG&lid=LSTMOBFKCTSAPAYNSGGKWDGRM&marketplace=FLIPKART&srno=s_1_9&otracker=search&f...
Flipkart
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
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 ou
Buy without Exchange ₹117,100
Buy with Exchange up to ₹14,750 off
Exchange not available at pincode (600041)
NOTIFY ME
Get notified when this item comes back in stock.
Brand Warranty for 1 Year Know More
Color
Highlights
64 GB ROM
Easy Payment
No cost EMI starting from ₹13,012/month
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)
Amazon price (Rs): ₹90,900.00
Price Comparison Engine
Type here to search
ENG
12:30
16-12-2020


Apple iPhone 11 Pro Max (64GB)
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
amazon.in
iphone 11 pro max
Hello, Sign in Account & Lists
Returns & Orders
Try Prime
Cart
Hello Select your address
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
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)
Amazon price (Rs): ₹90,900.00
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
Share
With Exchange
Up to ₹ 14,250.00 off
Without Exchange
₹ 99,900.00 ₹ 109,900.00
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
Price Comparison Engine
Type here to search
ENG
12:31
16-12-2020

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.



CONCLUSION:

We have successfully obtained the required output for the project.