Generate a code using GitHub Copilot / Amazon Codewhisperer, these are powerful code generation tool designed to assist developers in streamlining their workflow and saving time. It provides intelligent suggestions and helps automate repetitive tasks.

* To evaluate the accuracy and effectiveness of the Amazon CodeWhisperer, we will utilize it to generate code for scraping product information from the Flipkart website. This code will leverage the CodeWhisperer's capabilities to expedite the development process and enhance productivity.

Code:

"""

Program: Flipkart Web Scraping

Description: This program scrapes Flipkart website to retrieve product information and reviews.

import requests

from bs4 import BeautifulSoup

# Getting the input from the user

product = input("Enter the product you want to search: ")

# Constructing the URL for the product search

url = "https://www.flipkart.com/search?q=" + product

# Sending a GET request to the URL and parsing the response using BeautifulSoup

response = requests.get(url)

soup = BeautifulSoup(response.text, "html.parser")

# Check whether the product has free delivery by today

free\_delivery = soup.find("div", class\_="\_3tcB5a p8ucoS")

if free\_delivery:

print("Free Delivery")

# Retrieving information for the first product in the search results

product\_name = soup.find("div", class\_="\_4rR01T")

print(product\_name.text)

original\_price = soup.find("div", class\_="\_3I9\_wc \_27UcVY")

print(original\_price.text)

price = soup.find("div", class\_="\_30jeq3 \_1\_WHN1")

print(price.text)

# Retrieving available offers and printing them in a list

offer = soup.find("div", class\_="\_3Ay6Sb")

print("Offer:", offer.text)

# Retrieving all the reviews and ratings by customers and printing them in a list

ratings = soup.find\_all("div", class\_="\_3LWZlK \_1BLPMq")

reviews = soup.find\_all("p", class\_="\_2-N8zT")

rating\_list = []

review\_list = []

for rating in ratings:

rating\_list.append(rating.text)

for review in reviews:

review\_list.append(review.text)

print("Ratings:", rating\_list)

print("Reviews:", review\_list)

This code is a Python program that performs web scraping on the Flipkart website. It starts by asking the user for a product to search. Then, it constructs the URL for the search query and sends a GET request to retrieve the HTML response. The BeautifulSoup library is used to parse the HTML and extract the desired information.

The program checks if the product has free delivery and prints a message if it does. It then retrieves details of the first product in the search results, including the product name, original price, and discounted price. Additionally, it extracts any available offers and prints them in a list.

Furthermore, the program scrapes the customer reviews and ratings for the product. It stores the ratings and reviews in separate lists, which are then printed.