

Task 4

4.Create a program that extracts product information such as names, prices, and ratings, from an online ecommerce website and stores the data in a structured format like a CSV file

```
import org.jsoup.Jsoup;
import org.jsoup.nodes.Document;
import org.jsoup.nodes.Element;
import org.jsoup.select.Elements;

import java.io.FileWriter;
import java.io.IOException;

public class ProductScraper {
    public static void main(String[] args) {
        String url = "https://books.toscrape.com/";
        String csvFile = "products.csv";

        try {
            // Fetch the HTML document
            Document doc = Jsoup.connect(url).get();
```

```
// Select product containers

Elements products =
doc.select("article.product_pod");


// Create CSV file writer

FileWriter writer = new FileWriter(csvFile);
writer.append("Product Name,Price,Rating\n");


for (Element product : products) {
    String name = product.select("h3 a").attr("title");
    String price = product.select(".price_color").text();
    String rating = product.select("p.star-
rating").attr("class").replace("star-rating",
    "").trim();

    writer.append(name).append(",")
        .append(price).append(",")
        .append(rating).append("\n");
}


writer.flush();
writer.close();
```

```
        System.out.println("Product data successfully written  
        to " + csvFile);  
    } catch (IOException e) {  
        e.printStackTrace();  
    }  
}  
}
```