Program for Web Scraping and Data Extraction: Use R packages like rvest or httr to scrape data from a specific website or API.

- Define the target website or API endpoints and specify the data to be extracted.
- Retrieve the HTML content or JSON response from the website or API.
- Parse and extract the desired data using CSS selectors, XPath, or JSON parsing techniques.
- Save the extracted data to a file or perform further analysis on it.

```
# Load necessary libraries
library(rvest)
# Specify the URL of the website to scrape
url <- "http://books.toscrape.com/"</pre>
# Download the HTML content
html_content <- read_html(url)</pre>
# Define XPath selectors to extract data
title_xpath <- '//*[@class="product_pod"]/h3/a'
price_xpath <- '//*[@class="product_pod"]/div[2]/p[1]'</pre>
# Extract data using XPath selectors
titles <- html_content %>%
 html_nodes(xpath = title_xpath) %>%
 html text() %>%
 trimws() # Remove leading/trailing whitespaces
prices <- html_content %>%
 html_nodes(xpath = price_xpath) %>%
 html text() %>%
 trimws() # Remove leading/trailing whitespaces
# Combine the extracted data into a data frame
book_data <- data.frame(Title = titles, Price = prices)
# Print the extracted data
print(book data)
# Save the extracted data to a CSV file
write.csv(book_data, "book_data.csv", row.names = FALSE)
```