

# Module 4: User Events, Recorder and Scraping

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## Demo 2 – Solution

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## Demo 2

- Create an automation project which does the following:
1. Ask the user for an email-id
  2. Open Flipkart website using this link: <https://www.flipkart.com/>
  3. Search for any particular product from the search box
  4. From the result page (of the product searched) pick the name of each product with their respective price and write it in an Excel sheet
  5. Finally, excel sheet should be mailed to the user

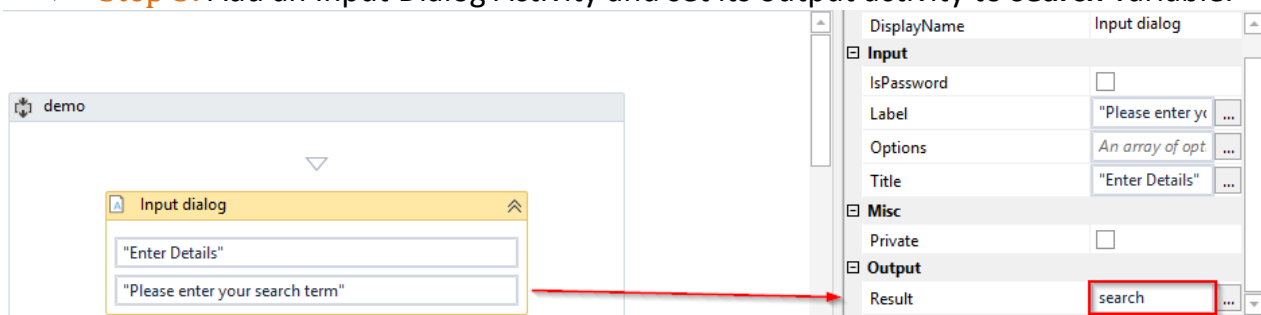
	A	B
1	Name	Price
2	Blackberry Q5 (White, 8 GB)	8,900
3	Blackberry DTEK50 (Grey, 16 GB)	20,300
4	Blackberry Optiemus (Titanium Silver,	39,490
5	Blackberry Q10 Special Edition (White,	8,999
6	Blackberry Z10 (Pure White, 16 GB)	8,825
7	Blackberry Curve 9320 (Black, 512 MB)	3,945
8	Blackberry Z10 Special Price (Charcoal E	7,315
9	Blackberry Priv (Black, 32 GB)	25,999
10	Blackberry 9720 (Black, 512 MB)	6,999
11	Blackberry Curve 9320 (White, 512 MB)	4,999
12	Blackberry Classic (Black, 16 GB)	17,690
13	Blackberry 9360 (Black, 512 MB)	4,399

## Demo 2 – Solution

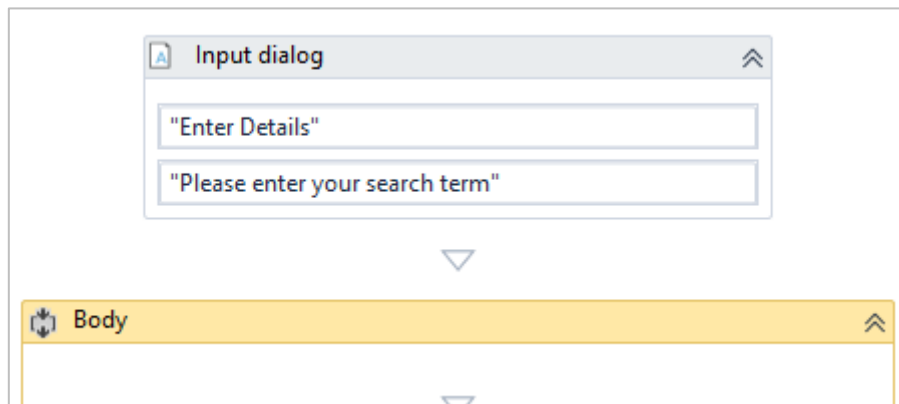
- **Step 1:** Create a blank project and, on the Design tab, in the File group, select New -> Sequence. The New Sequence Diagram window is displayed. Give a name to the Sequence
- **Step 2:** Declare the variables as shown in the screenshot below. Fill in your email ID and password in the Default field of email and password variables.

Name	Variable type	Scope	Default
email	String	demo	"<Enter your mail ID> "
password	String	demo	"Enter your Password"
mailmessage	List<MailMessage>	demo	Enter a VB expression
search	String	demo	Enter a VB expression

- **Step 3:** Add an Input Dialog Activity and set its output activity to **search** variable.

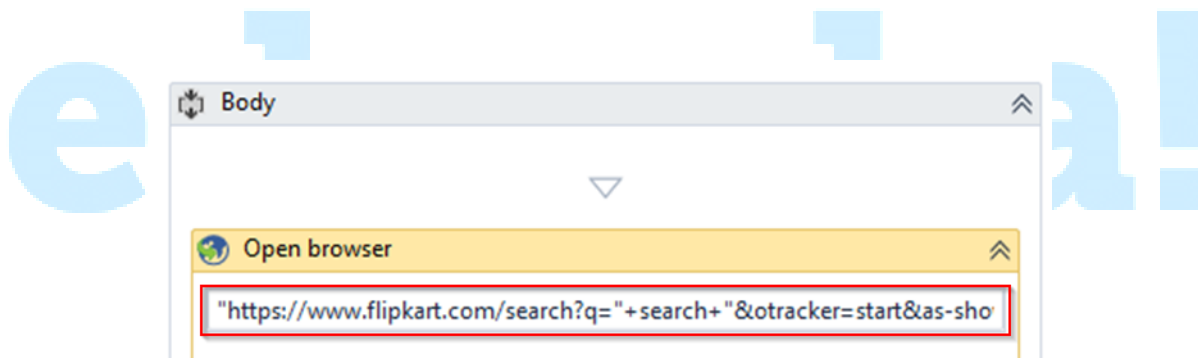


- **Step 4:** Add another **Sequence** after the Input Dialog Activity.

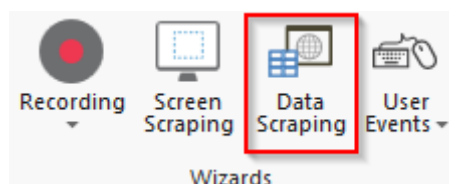


- **Step 5:** In this newly created sequence, add Open Browser Activity and enter the following URL:

"https://www.flipkart.com/search?q="+search+"&otracker=start&as-show=on&as=off"



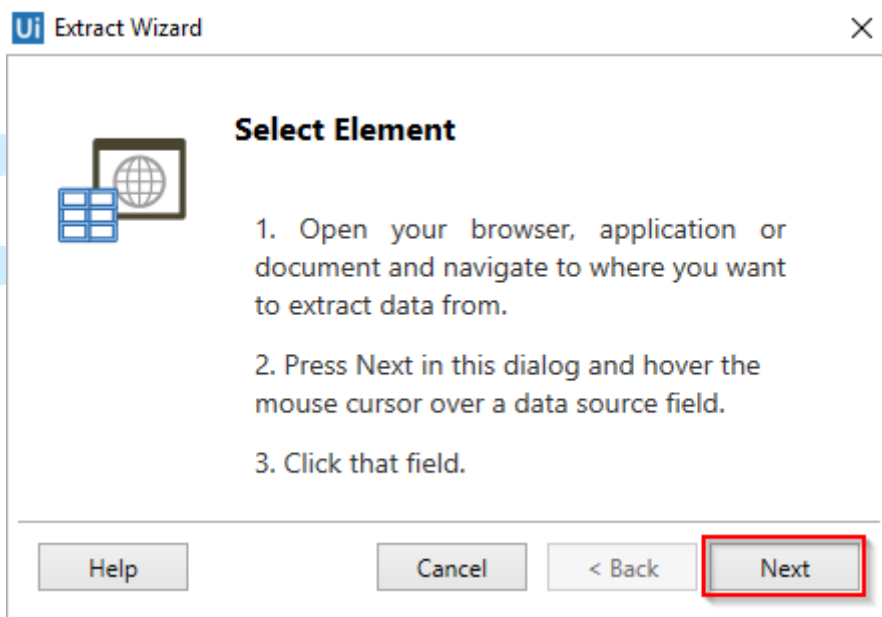
- **Step 6:** Now select the **Do** container of the Open Browser activity and select **Data Scraping**:



## 1. Navigate to the flipkart website and search for Iphone.

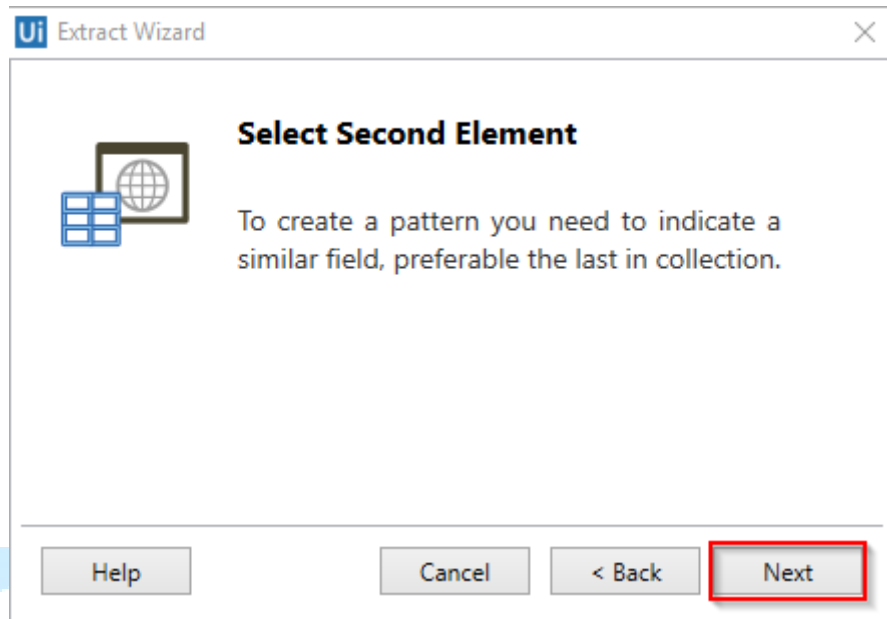
The screenshot shows the Flipkart homepage with a search bar containing 'iphone'. The search results are displayed under the 'Mobiles' category. The top result is the 'Apple iPhone 6 (Gold, 32 GB)' with a price of ₹25,891. The page includes navigation links like 'ELECTRONICS', 'APPLIANCES', 'MEN', 'WOMEN', 'BABY & KIDS', 'HOME & FURNITURE', 'BOOKS & MORE', and 'OFFER ZONE'. A sidebar on the left shows filters for 'Categories' and 'Mobiles'.

## 2. Back in your Extract Wizard, select Next and highlight the Iphone's Title.

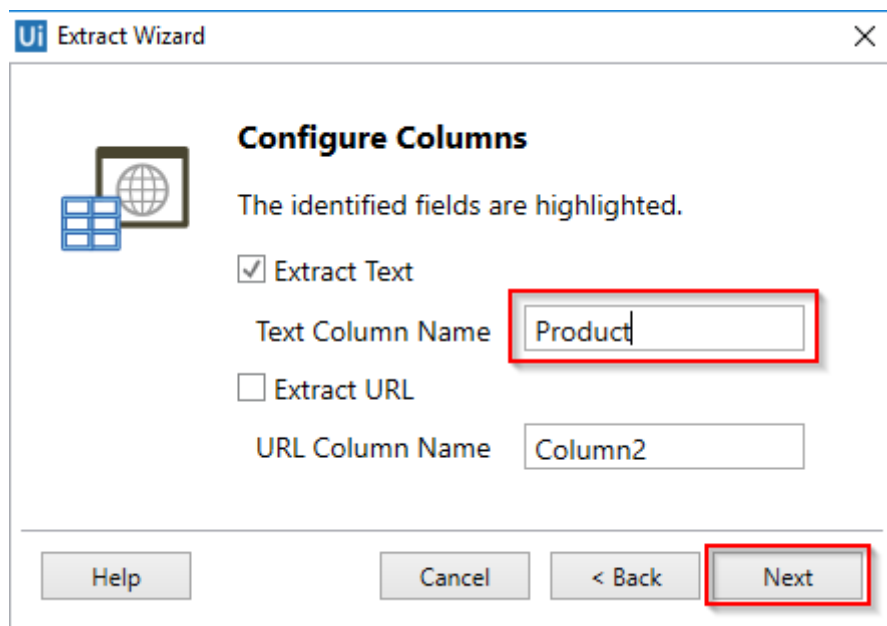


The screenshot shows the product page for the 'Apple iPhone 6 (Gold, 32 GB)'. The product title is highlighted with a red rectangle. The price is ₹25,891, and there is a 12% discount. The page includes a list of specifications: 32 GB ROM, 4.7 inch Retina HD Display, 8MP Rear Camera | 1.2MP Front Camera, Li-Ion Battery, A8 Chip with 64-bit Architecture and M8 Motion Co-processor, and Brand Warranty of 1 Year. The 'Next' button from the previous dialog is visible over the product title.

- Now click on next and highlight another iphone's title like you did in the previous step.



- Once the previous step is done, configure column name by setting it as **Product** and click on Next



5. Click on **Extract Correlated Data** to extract the Prices of all the products

Ui

Extract Wizard

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**Preview Data**

Product
Apple iPhone 6 (Gold, 32 GB)
Apple iPhone 7 (Black, 32 GB)
Apple iPhone 6 (Space Grey, 32 GB)
Apple iPhone SE (Space Grey, 32 GB)
Apple iPhone SE (Rose Gold, 32 GB)
Apple iPhone 7 (Rose Gold, 32 GB)
Apple iPhone 7 (Gold, 32 GB)
Apple iPhone SE (Gold, 32 GB)
Apple iPhone 7 (Silver, 32 GB)
Apple iPhone 6s Plus (Gold, 32 GB)
Apple iPhone 6s (Rose Gold, 32 GB)
Apple iPhone 6s (Space Grey, 32 GB)
Apple iPhone 7 Plus (Rose Gold, 32 GB)
Apple iPhone 7 Plus (Black, 128 GB)
Apple iPhone SE (Silver, 32 GB)
Apple iPhone 7 Plus (Gold, 128 GB)
Apple iPhone 7 (Gold, 128 GB)
Apple iPhone 7 Plus (Rose Gold, 128 GB)
Apple iPhone 7 (Jet Black, 128 GB)
Apple iPhone 7 Plus (Jet Black, 128 GB)

Edit Data Definition

Maximum number of results (0 for all)

100

Help

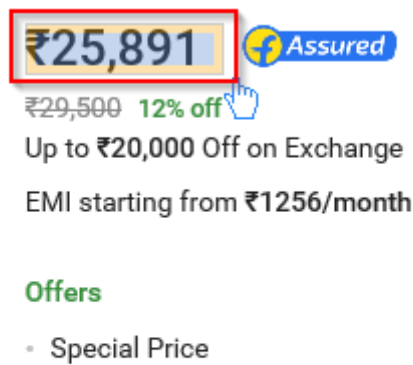
Cancel

< Back

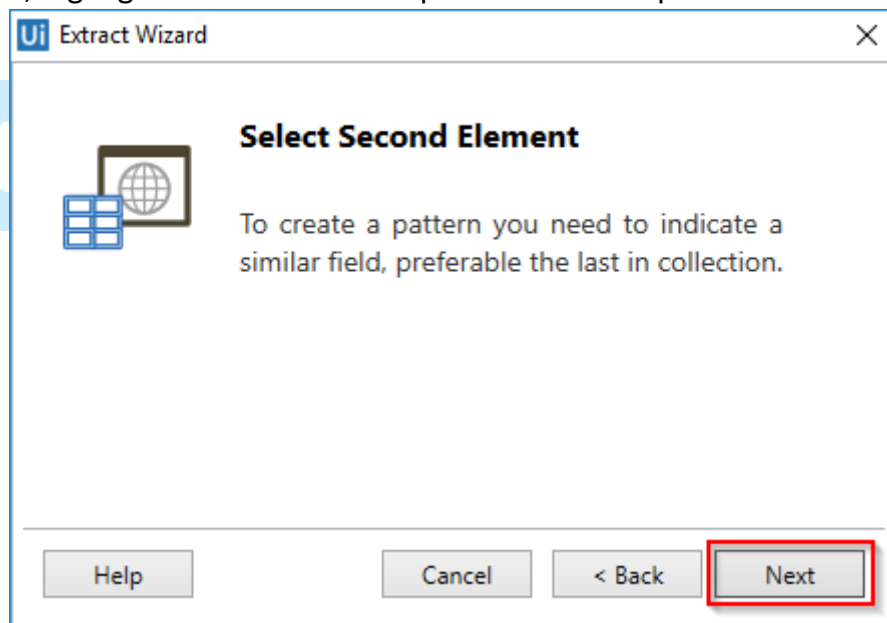
Extract Correlated Data

Finish

6. Now highlight the Price area of the first phone.




7. After this, highlight another iPhone's price to create a pattern





8. After you are done with this, configure the Column and name it as Price and click on Next

**Ui** Extract Wizard ×

 **Configure Columns**

The identified fields are highlighted.

☒ Extract Text

Text Column Name

☐ Extract URL

URL Column Name

9. Click on Finish

Apple iPhone 7 Plus (Gold, 128 GB)	₹64,999
Apple iPhone 7 (Gold, 128 GB)	₹54,999
Apple iPhone 7 Plus (Rose Gold, 128 GB)	₹65,999
Apple iPhone 7 (Jet Black, 128 GB)	₹54,850
Apple iPhone 7 Plus (Jet Black, 128 GB)	₹64,999

Maximum number of results (0 for all)

10. Once you click on Finish, it will ask you if the data spanning in multiple pages. Click Yes. And then select the Next Page Button on the Flipkart's Iphone display page

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Indicate Next Link

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Is data spanning multiple pages?

Identify the element that navigates to the next pages. It could be a 'Next' button or an arrow (not a page number).

Press Yes to indicate it.

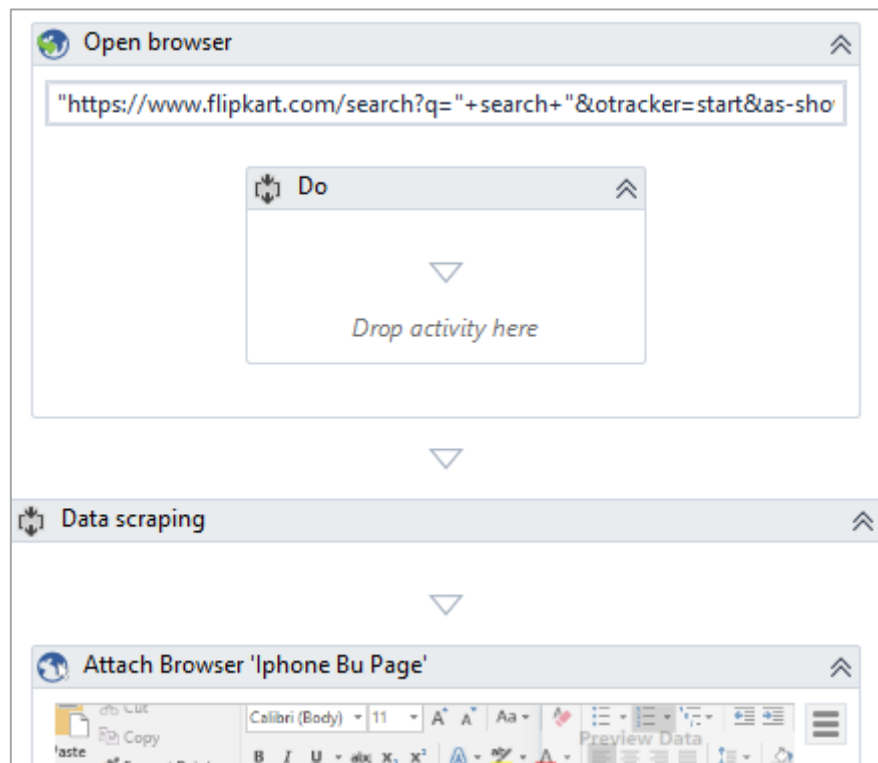
Yes

No

1 2 3 4 5 6 **NEXT**

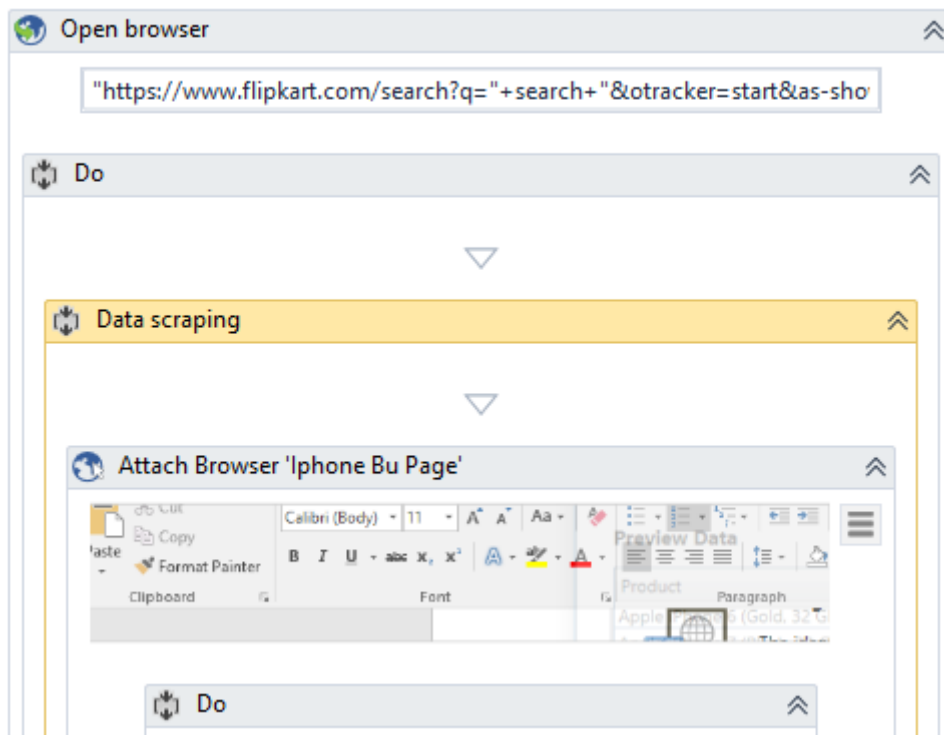
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11. Your Sequence will look like this:

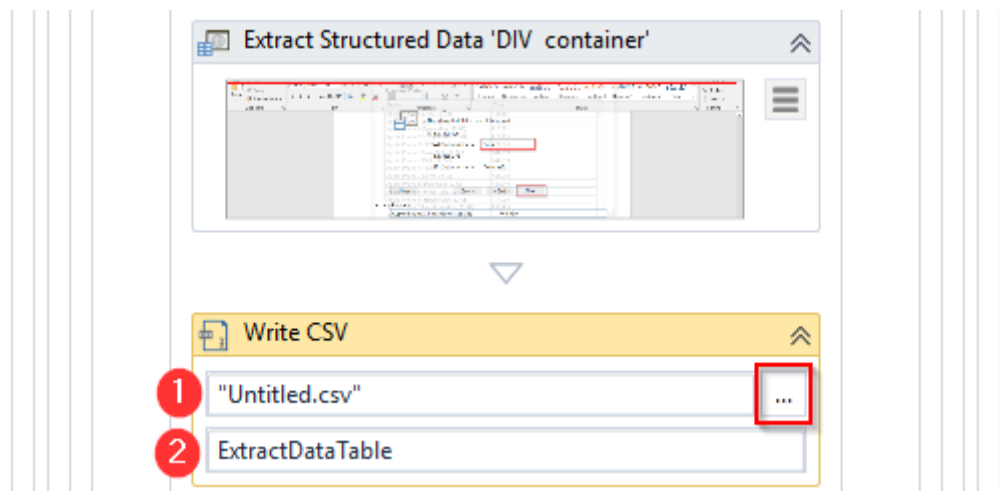


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12. Move the Data Scraping Sequence inside the Do container of the Open Browser Activity

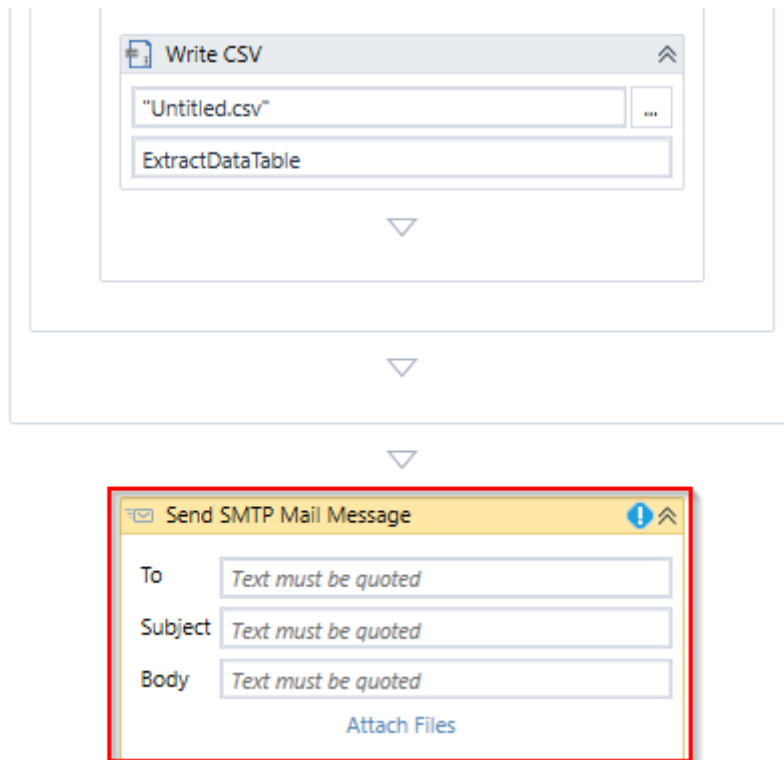


- **Step 7:** Insert a **Write CSV** activity under Extract Structured Data Activity
1. Give the path to the CSV file by clicking on Browse button, where all the extracted data will be stored
  2. Set ExtractDataTable variable into the Write CSV activity

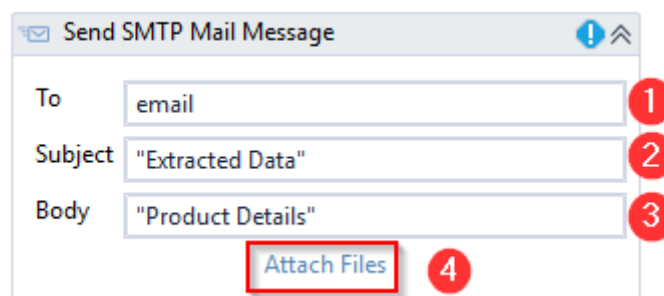


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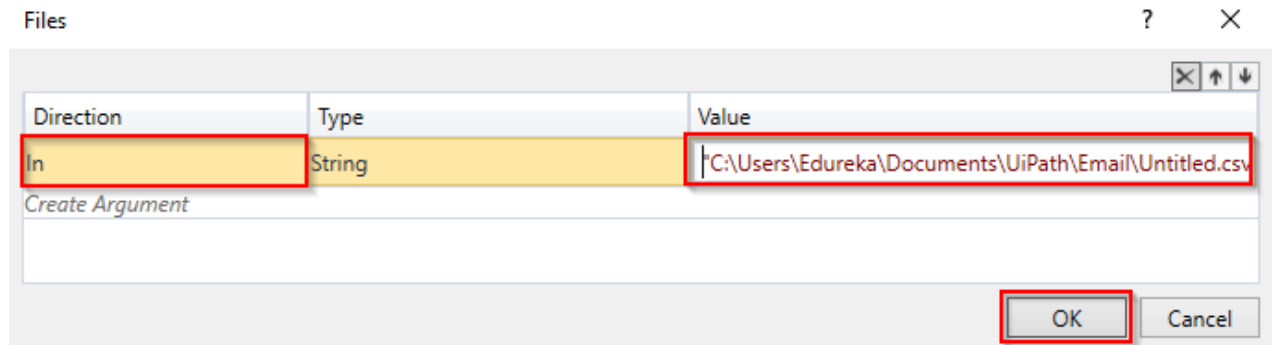
- **Step 8:** After the Data Scraping sequence, add **Send SMTP Mail Message** activity



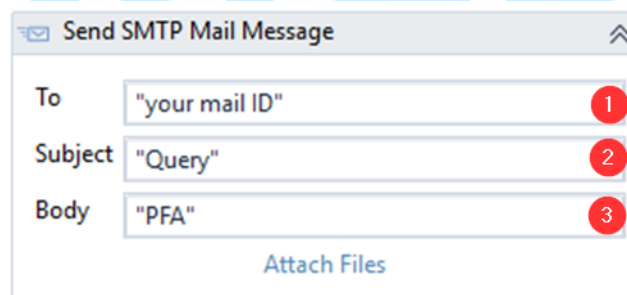
1. In the **To** field, set email variable
2. In the **Subject**, set any text you like
3. Set any text for the body
4. Click on **Attach Files** to Attach the CSV where all the extracted data will be stored



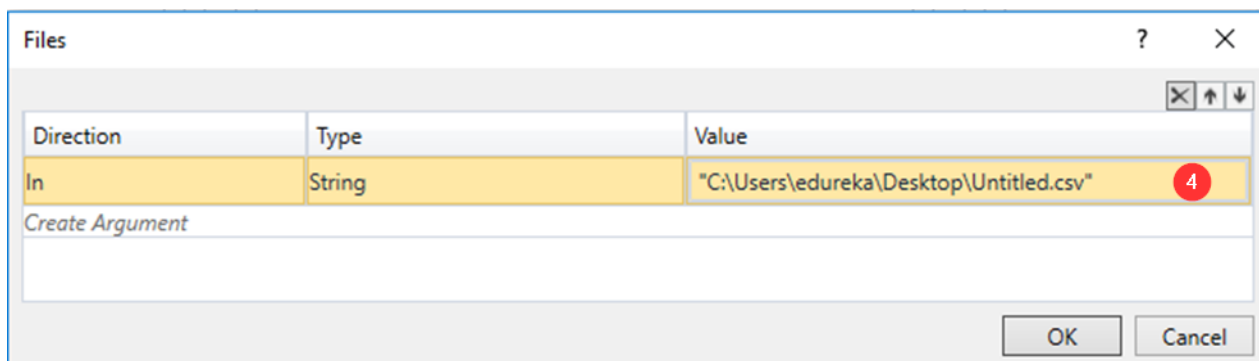
5. Create an argument and enter the complete path of the CSV file and click OK



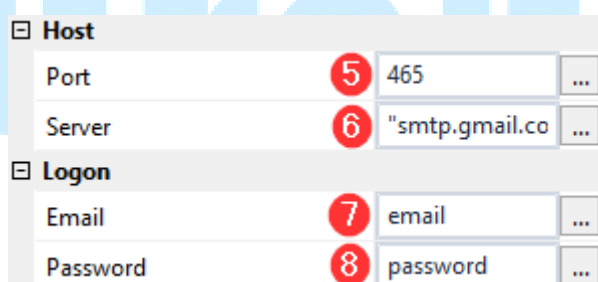
- **Step 9:** Under the Data Scraping sequence add Send SMTP Mail Message Activity.
1. In the **To** field, add **email** variable
  2. In the **Subject** Field, add a subject you want to give to the emails
  3. In the **Body** Field, add a Body for the email



- Click on the **Attach Files** section, give the path to your CSV file which will have the extracted contents



- In the **Port** property, Add: 465
- In **Server** property, add smtp.gmail.com
- In the **Logon email**, enter **email** variable
- In the **Logon password**, enter **password** variable



- **Step 10:** Now **Run** the project, after the successful run, you will get a mail having the CSV file which will have all the content related to your search term.