



LET'S GET TO KNOW ABOUT

# UIPATH - STUDIO

**Bonus: Mini Project** 

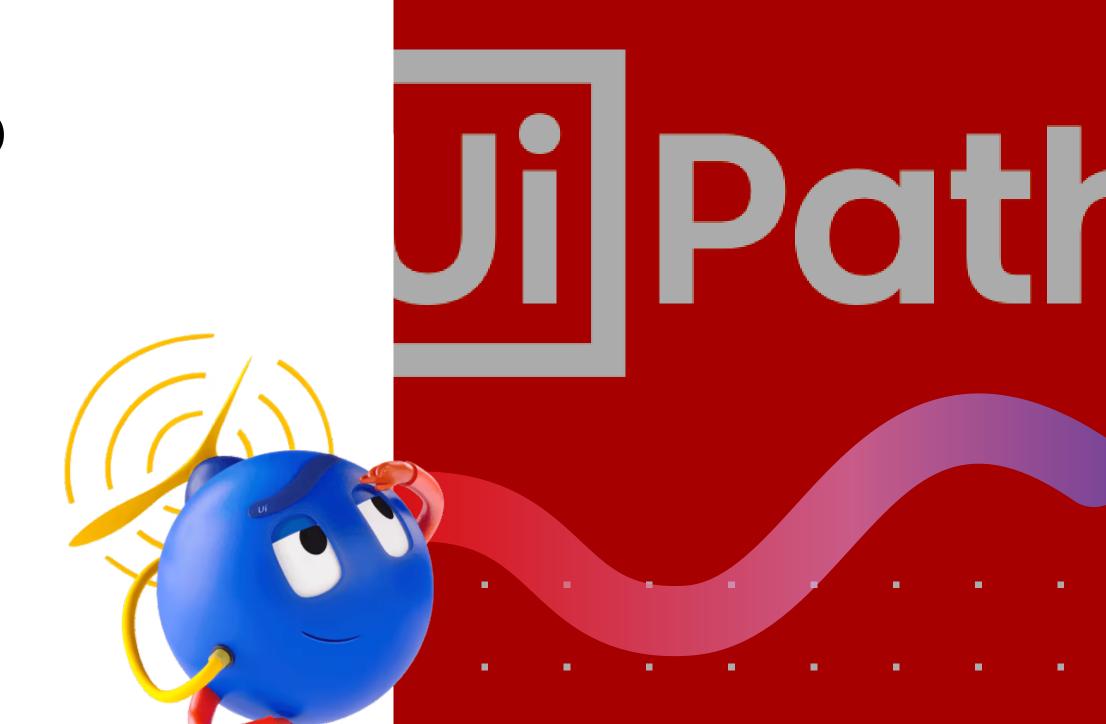
Ву

Anjana S

Uipath Student Developer Champion

Get started

Let's Go



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## Key takeaways:

• Uipath Studio debrief

## Mini Projects

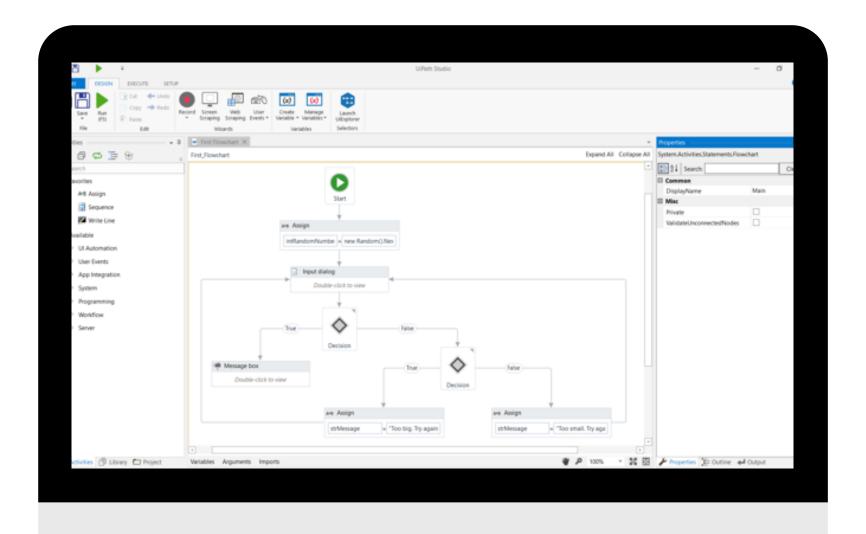
 Web Scraping Using Uipath on Amazon.in site



## **Uipath Studio**

# Introduction

Continuing from the previous presentation, Uipath studio is a platform where we would be able to build our bots and move into the production and on the automation pipeline. So Uipath offers different versions of platforms for Developers it's Uipath Studio, for non—tech persons they can go for Uipath StudioX and to work on Al Models and also other features they can go for Uipath Enterprise Edition and they can always switch to different places and it will be like separate workspace format same like Google Chrome profiles



### Studio's

## **Main Tabs**

So the current version that I am using is Uipath Studio 2020.10.7 and along with that you will find few tabs that are present so we have <u>Open</u>, <u>Close</u> at the top which is for opening any Uipath .xaml main project files so usually although there are lot of xaml files Main is a place where it is commonly linked then close is usually on diabe mode when you open the studio, if you open any project then we can go back to the home tab and close.

Then we have <u>Help</u> tab where you can view about the product, Uipath Community, Forums, Surveys, Tutorials, Academy, New Releases etc along with the dashboard representing the edition, activation id, frameworks etc. Then we have other tabs which is explained on the side regarding it's functionalities.

O1 Settings Tab

**02** Tools Tab

03 Teams Tab

04 Templates Tab

05 Start Tab





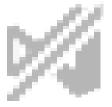
## Open from TFS

Open a project from a TFS repository.



#### Add to TFS

Add current project to TFS source control.



#### Disconnect

Disconnect current project from source control



## Manage TFS Online

Go to web management interface.

# Team Tab

Team tab as the name suggests is the tab that facilitates multiple users to work on a single project and in other words it is a place where multiple version control systems could be integrated.

- Github Git
- Azure DevOps Server TFS
- Apache Subversion SVN

The most used would be Git as it is more popular and easy to penetrate in

#### Apps



#### **UI Explorer**

Use UI Explorer to inspect the user interface of applications. Opening UI Explorer from Studio context will use the UI automation libraries shipped with the current version of Studio.



#### Repair Tool for Microsoft Office Interop

Tool which attempts to repair the Office installation and enable its interoperability features



#### Project Dependencies Mass Update Tool

Manage dependency versions and runtime rules across multiple projects stored locally or in SVN/TFS repositories. Edit versions, review changes, check in projects, and publish the updated proj...

Installs the browser extension for automating websites in Firefox.

#### **UiPath Extensions**



Installs the browser extension for automating websites in



Installs the browser extension for automating websites in Edge or Edge Legacy, automatically detecting which one is installed on the current machine.



#### Silverlight

Installs the runtime plugin for automating Silverlight-based applications.



#### Windows Remote Desktop

Install the runtime plugin for automating remote applications using a Remote Desktop Connection.



Installs the runtime plugin for automating Java-based applications.



Installs the runtime plugin for automating Citrix applications.

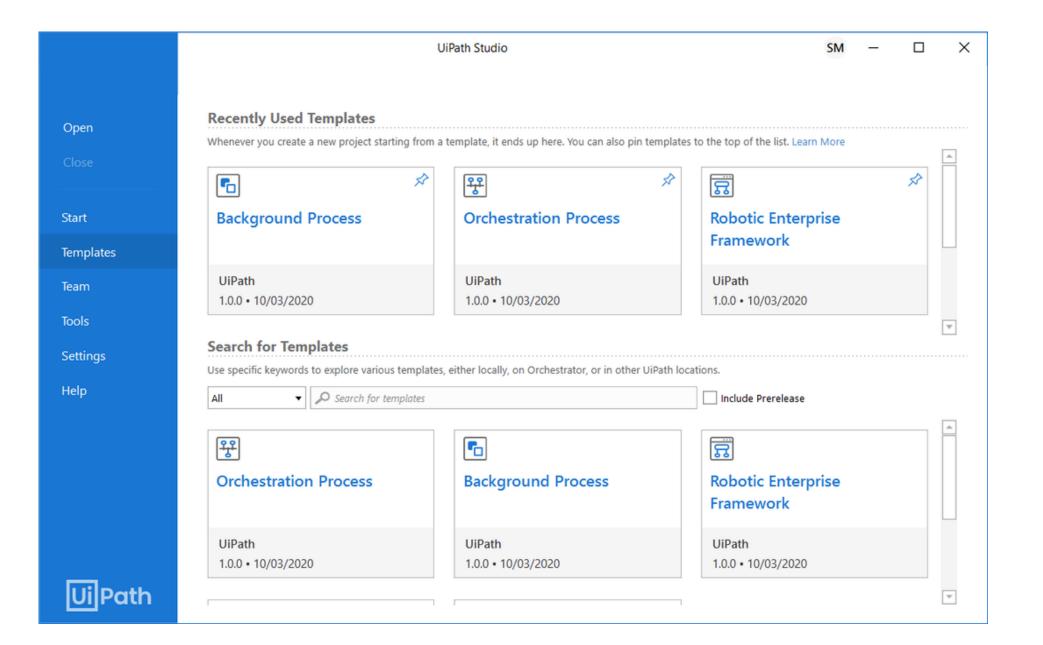


Install the runtime plugin for automating VMware Horizon applications.

#### Studio Tabs

# Tools Tab

This tab has two sections in which the second section contains Uipath Extensions (Web Browser, Citrix, VMware, JAVA, Remote Desktop Applications etc) that can be installed and on the first section there is UI-Explorer where we will work on modifying , inspecting , repairing the UI elements captured. Along with this we have Microsoft Office repair tools and mass update on dependencies in version control systems like SVN/TFS.

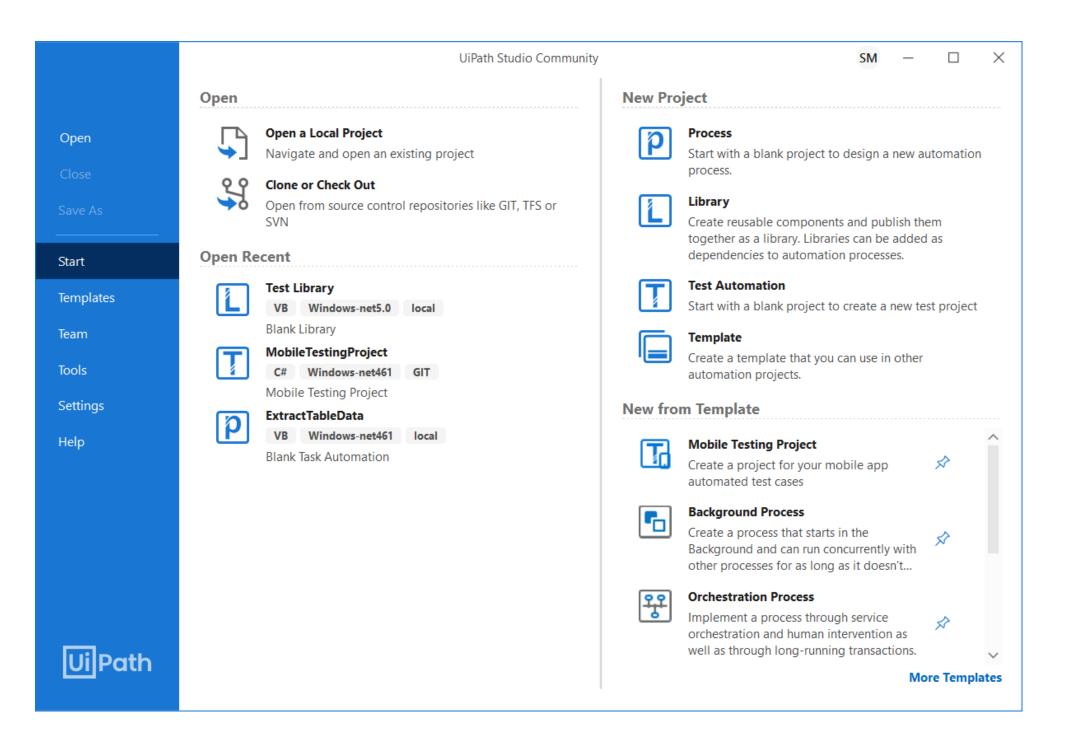


#### Studio Tabs

# Templates Tab

So let's consider a scenario if we have are building a bot for a business and handle all exceptions it's really a cumbersome task so templates or pre-boilerplates would be really helpful and that will have activities and exception handled so that large-scale deployment would be really feasible.

Some of the most commonly used templates are Robotic Enterprise Framework, Flowchart, Transaction Process, Background Process, Trigger Based Attended Process Automation

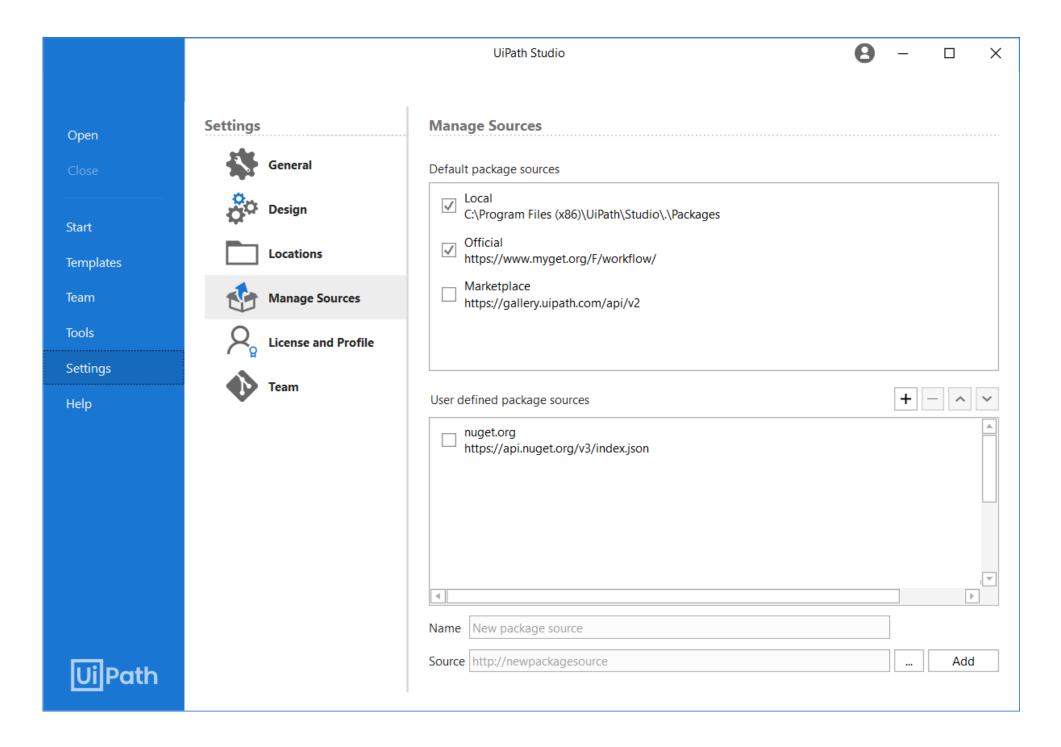


#### **Studio Tabs**

# **Start Tab**

There are 4 parts to it let's look at those one by one

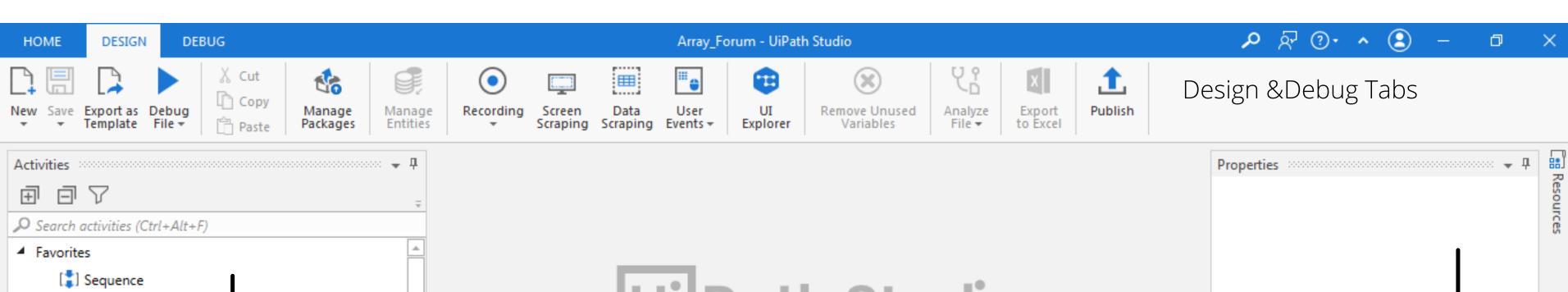
- 1) <u>Open This is a place where we can open</u> our existing projects and also clone from version control systems like Git, SVN, TFS
- 2) Open Recent If you have any projects done shortcut would be created for easy opening of the workflow
- 3) New From Template We can build projects from the templates too like RE, Flowchart etc
- 4) New Project We can create a process, template or reusable library.

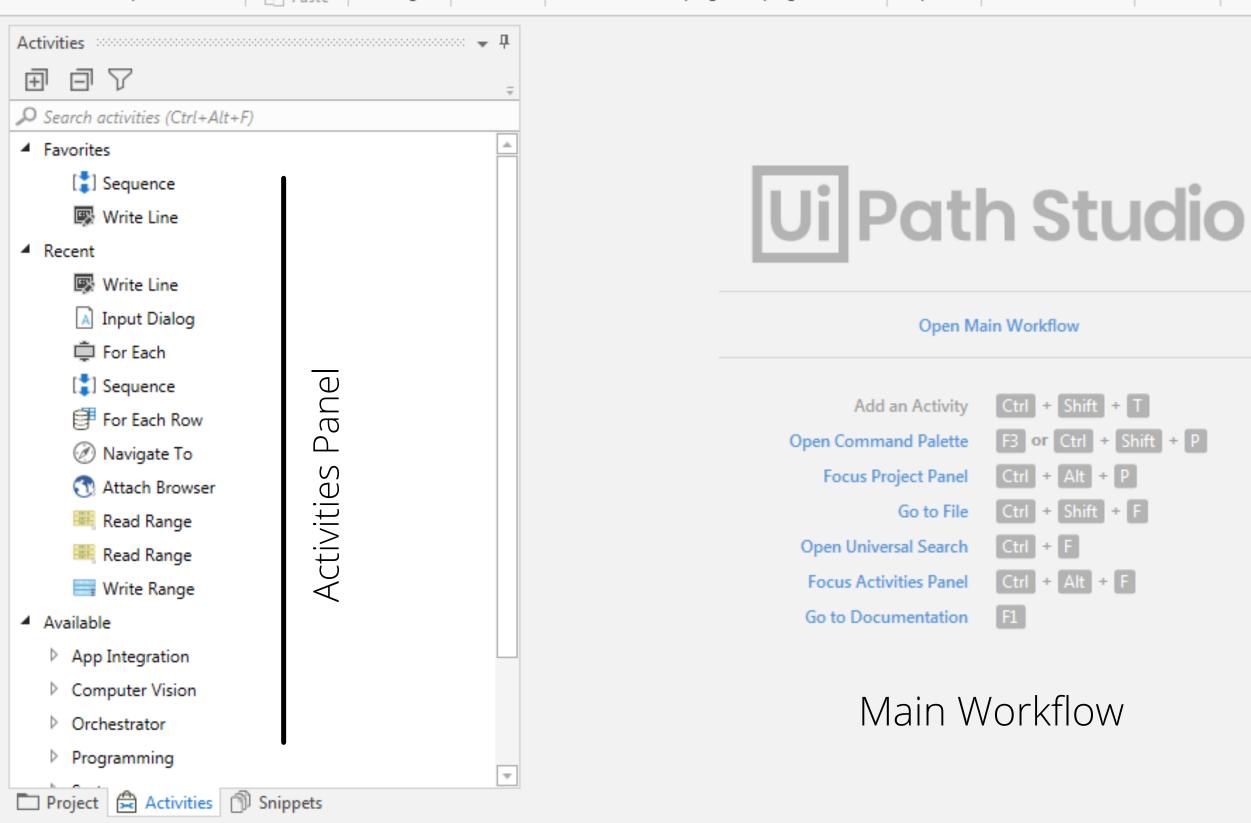


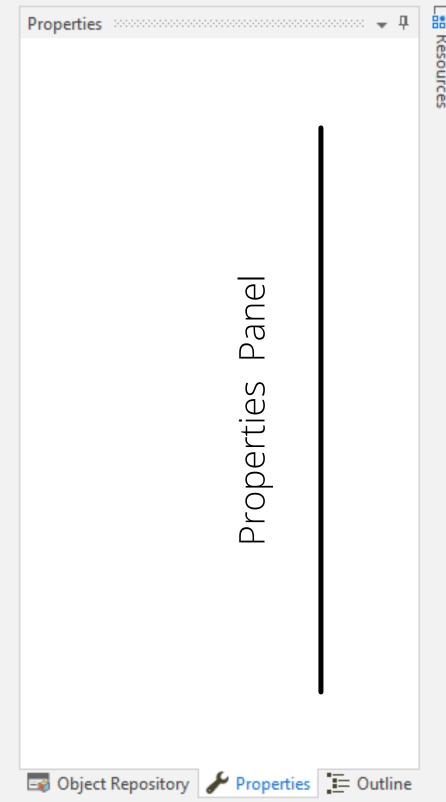
Studio Tabs

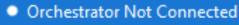
# Settings Tab

In this tab we have options to **enable/disable** version control systems, general tab for changing languages and studio themes to dark or light, <u>Licensing</u> is a place where we change profiles from studio to enterprise or studiox, **Manage sources** is where we have locations to download packages from the local directories and we can create our own user-defined packages, <u>Locations</u> to specify Project publishing and other URL's for library etc along with that we have <u>Design</u> tab to modify how the tabs look inside, execution and save&publish options

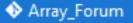












Output Error List Find References Breakpoints



## MAIN WORKFLOW

So this is where we will be building the bot so the workflow can be sequential or flowchart type or any other format through which we wish to accomplish a task.



## ACTIVITIES PANEL

- The activities panel will have options to search an activity and drop it on to the flow or double click that and also use filters to narrow down the results
- The project is where we will have the folders of the project along with the packages as dependencies
- Snippets is a place where we have code blocks like we can relate that to functions where we have snippets for basic things such as Delays, Loops etc





This shows Orchestrator connectivity, git repository push/pull/branch commits



# DUTPUT

This will show the output write logs, time taken to execute the bot etc. Then we have error list that lists all the errors during execution. If we have breakpoints in the workflow to track the hops this tab would help us to view that

## PROPERTIES PANEL

This panel is for configuring the properties of activity that we have used. For e.g if we have a web browser activity properties pane would display configurations like Browser Type, Maximize Window True/False etc.



# Uipath Studio's MINI PROJECT

**Ui Path** Community

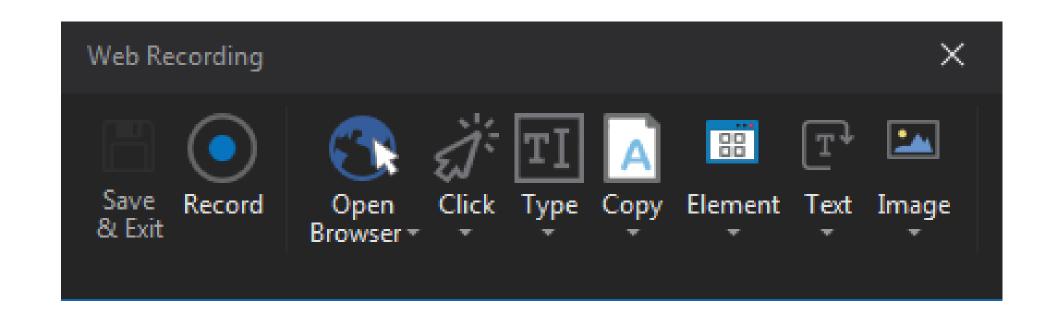


# Aim of the Project

To scrape the phone name and price from Amazon website and store it in the excel

Step 1 : Create a process in Uipath studio and name it as Recording\_Amazon

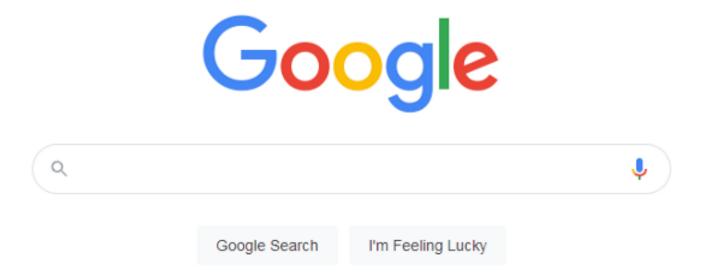
Step 2 : Go to recording -> Click Web you will get a pop screen like this



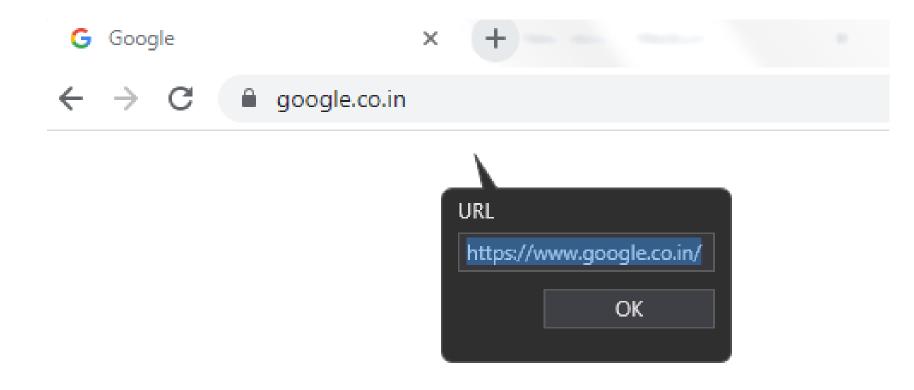




Step 3 : In your browser go to google search ( <u>www.google.co.in</u> )



Step 4: Go to Open browser activity and indicate the URL



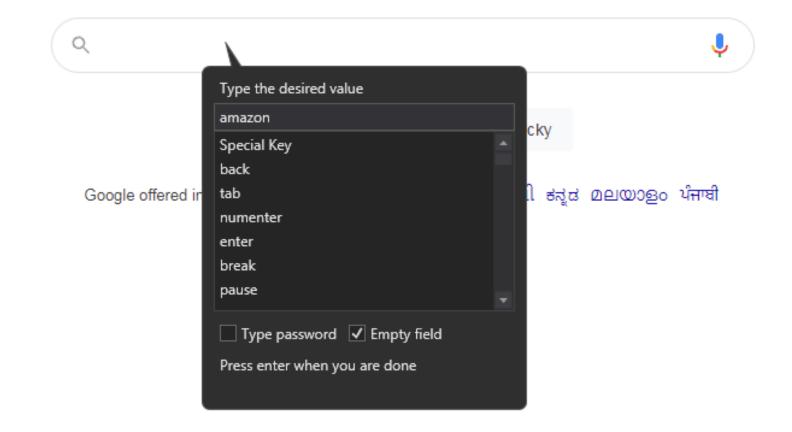




Step 5 : Then click Type activity and indicate the search bar and type amazon

Step 5.1: Check Empty Field button so that any previous searches would be deleted and the search content would be typed accordingly

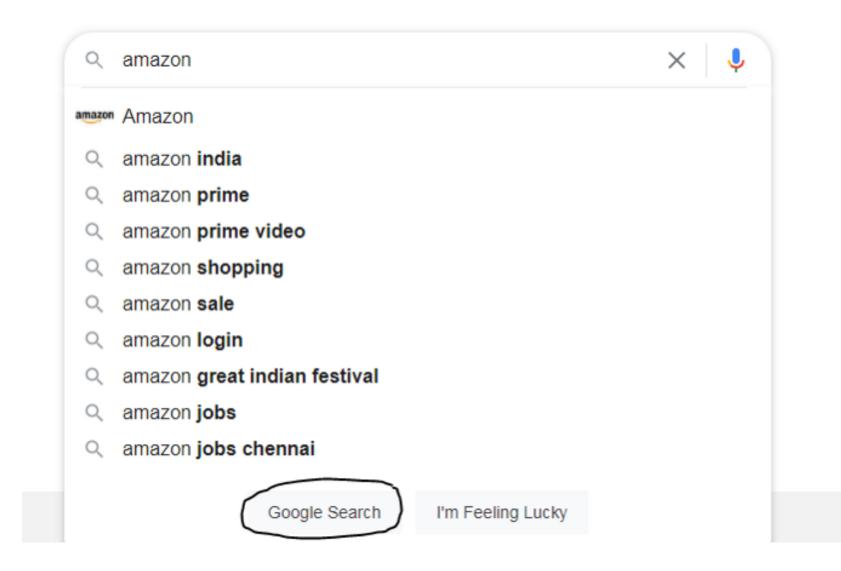
Step 5.2 : Once you have typed amazon , press enter button on the keyboard







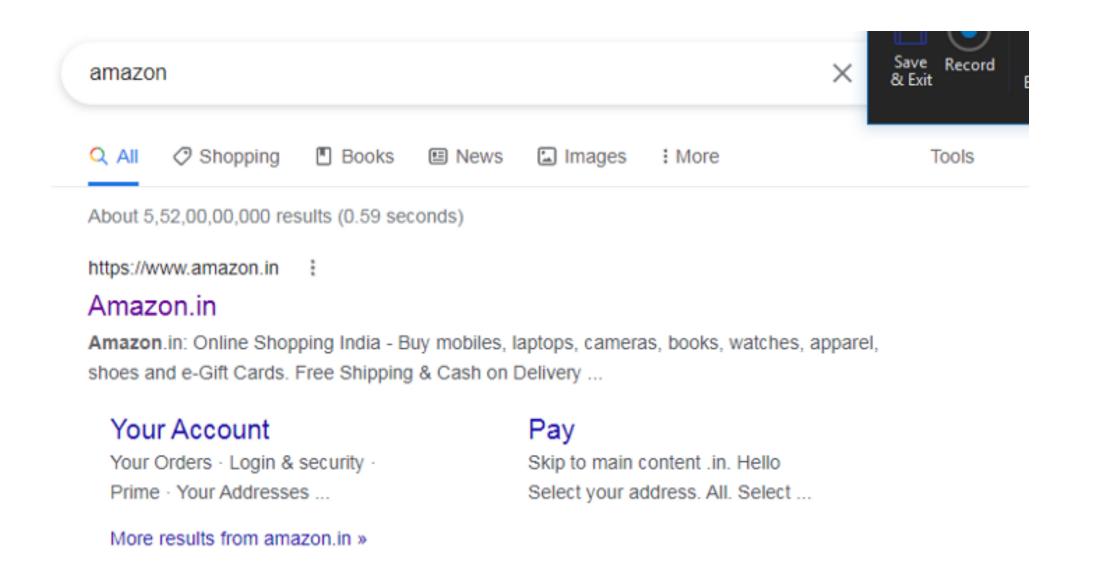
Step 6 : Once you typed amazon go to Click activity and indicate the google search button



Step 6.1: Once you have done this you will land up in this page (Note: Sign in to amazon if you haven't before recording the following steps)







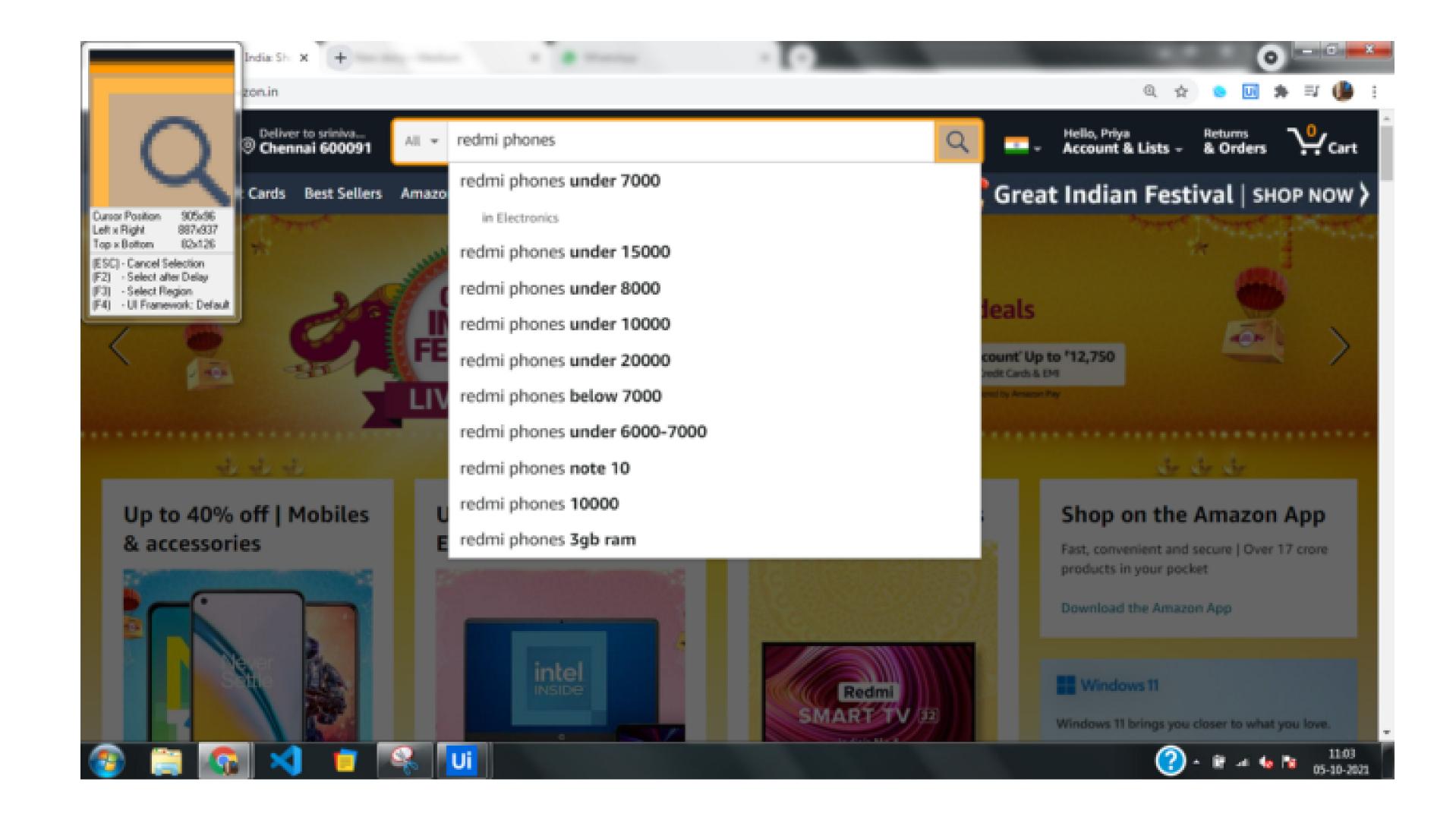
Step 6.2 : Go to click activity and click amazon.in

Step 6.3: Type redmi phones and click enter

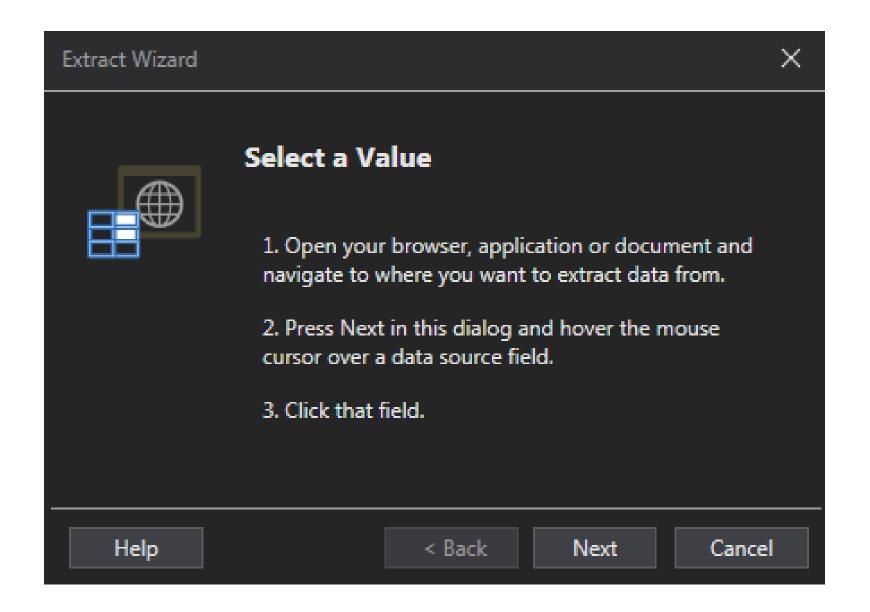
Step 6.4 : Go to click activity and indicate the search bar



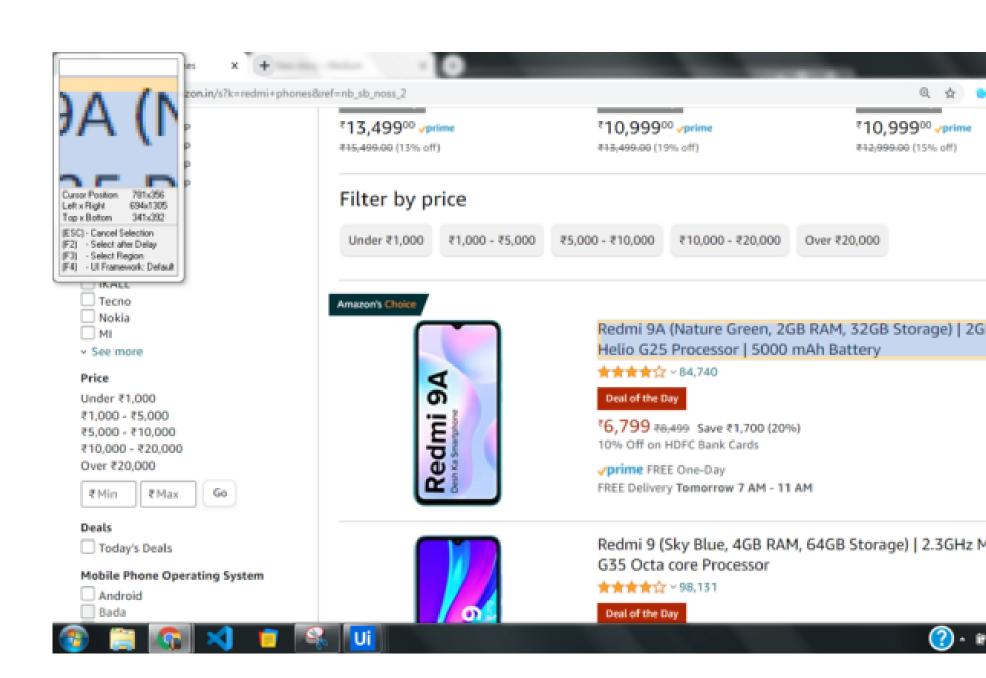




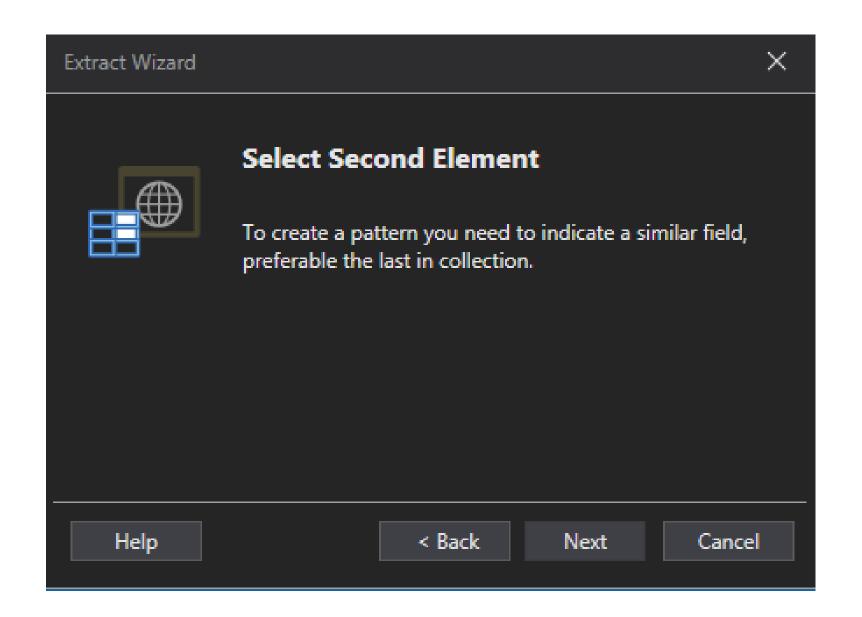
Step 7 : Now comes the very fun part the scraping . Go to text -> scrape -> Scrape data and you will land up in a extract wizard



Step 7.1: Indicate the name of the first phone



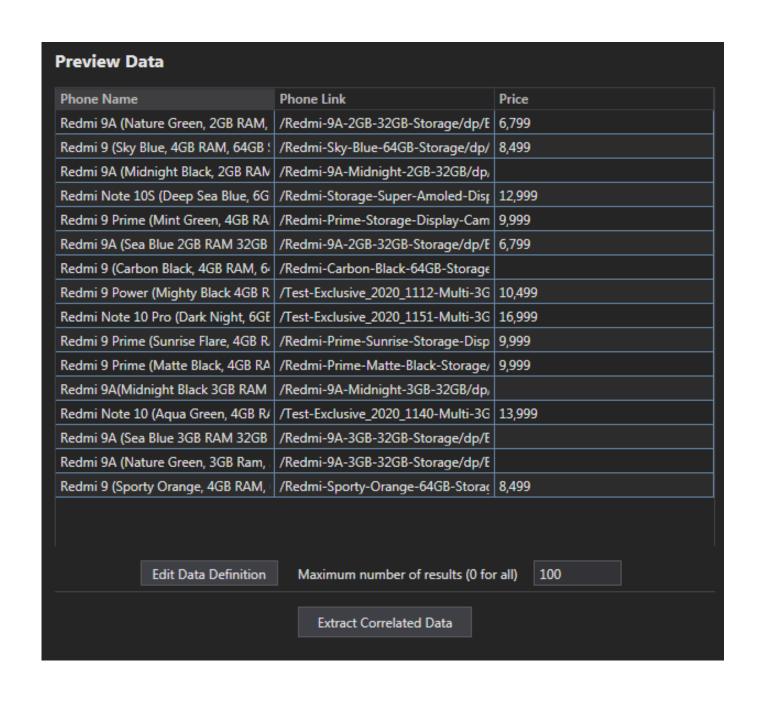
Step 7.2 : You will get another extract wizard click next and indicate the name of the next phone



Step 7.3 : Now that you have indicated you will get an pop up like this Step 7.3.1 : Rename the columns Phone Name , Phone link respectively and check the extract url column

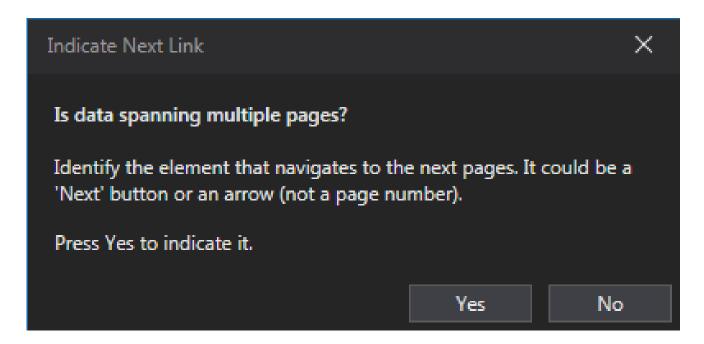
Step 7.3.2 : You will get to preview data and you will have Maximum no of results as default 100 you can give it any

Step 7.4 : Give extract correlated data and indicate the price as the same steps as you did for phone name and the extract wizard looks like this



Step 7.5 : Click finish

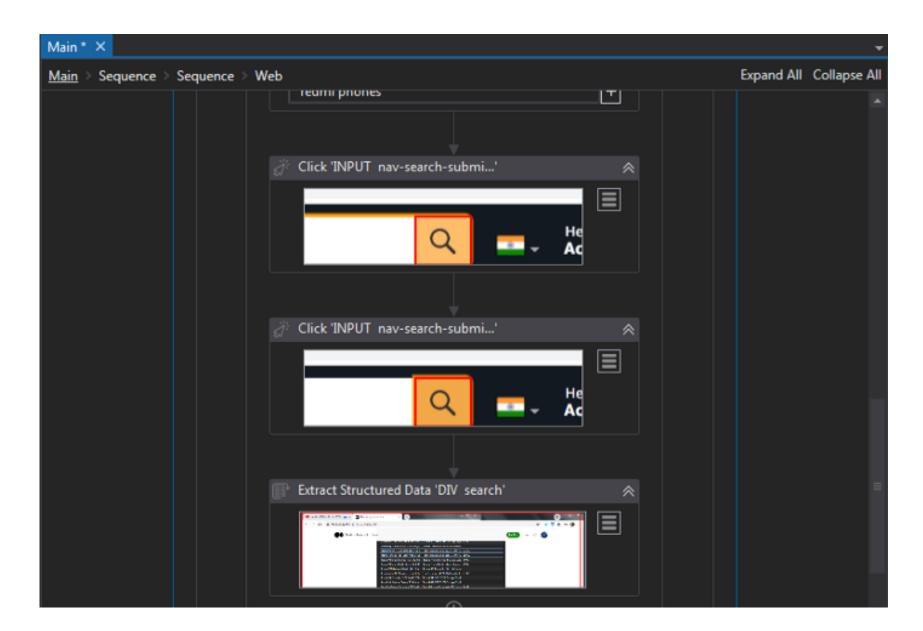
Step 7.6: We want to scan not just one page but multiple pages right like 1–126 like that so to indicate that you will get a wizard like this after you click finish. So give yes



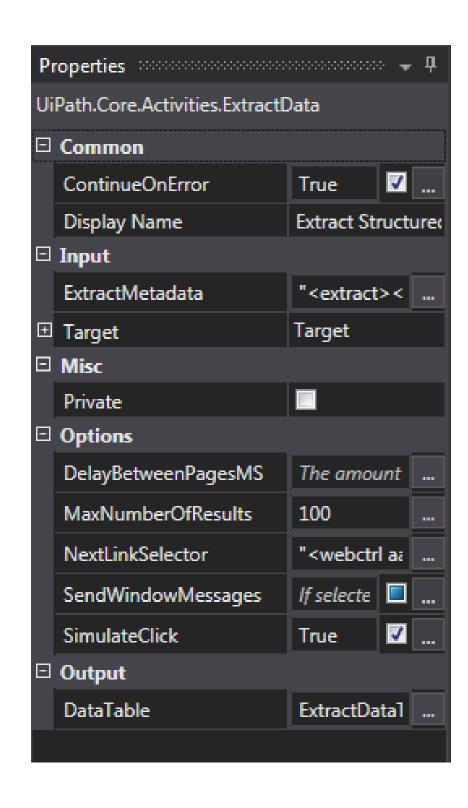
## Step 7.6.1: Indicate the next button in amazon site



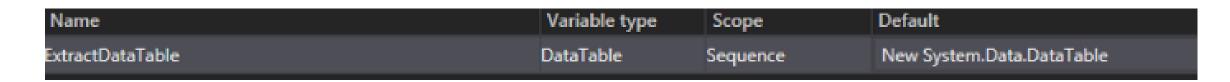
Step 8 : Give Save and Exit in Web recording . Once you save the workflow looks like this



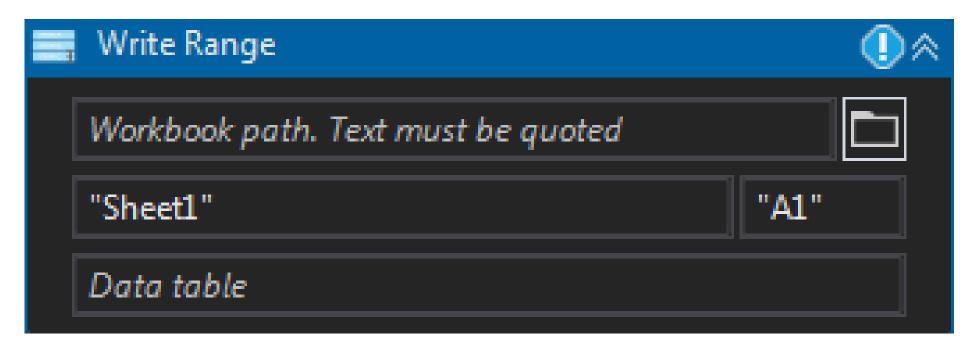
Step 9 : In the Extract Structured Data 'DIV search' activity check the properties you will see the details are stored in forms of rows and columns as Data Table in default to the variable ExtractDataTable



Step 9.1 : Go to the variables panel and change the scope of it from web to sequence



Step 10 : In the activities panel search for write range (File -> Workbook -> Write Range) and drop it after the extract activity



Step 10.1 : Give the excel name or browse the excel by click the folder icon and in the data table fill the datatable variable — ExtractDataTable.

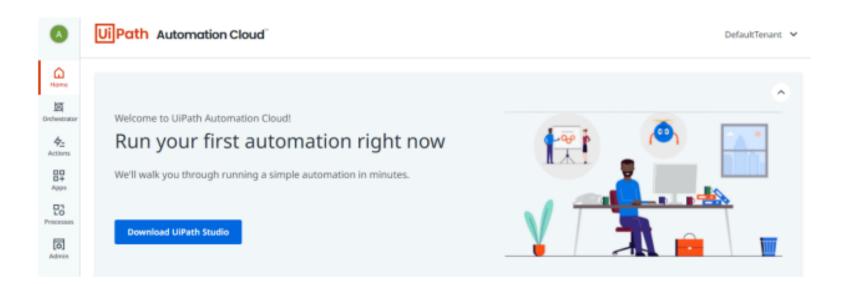
Step 10.2 : Save and run the workflow . The excel will look like this finally

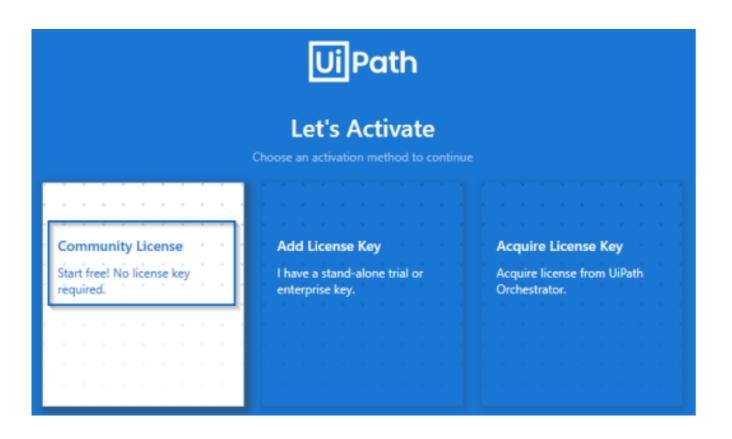
| А         | D                     | C          | U           | C           | г          | U          |
|-----------|-----------------------|------------|-------------|-------------|------------|------------|
| Redmi 9A  | Redmi-9،/             | 6,799      |             |             |            |            |
| Redmi 9 ( | /Redmi-Sl             | 8,499      |             |             |            |            |
| Redmi 9A  | /Redmi-9A             | \-Midnight | t-2GB-32GE  | 3/dp/B0869  | 97N43G/re  | f=sr_1_3   |
| Redmi No  | /Redmi-St             | 12,999     |             |             |            |            |
| Redmi 9 P | /Redmi-Pi             | 9,999      |             |             |            |            |
| Redmi 9A  | /Redmi-9/             | 6,799      |             |             |            |            |
| Redmi 9 ( | /Redmi-Ca             | rbon-Blac  | k-64GB-Sto  | orage/dp/E  | 3086985T6F | R/ref=sr_: |
| Redmi 9 P | /Test-Excl            | 10,499     |             |             |            |            |
| Redmi No  | /Test-Excl            | usive_2020 | 0_1151-Mu   | lti-3GB-Sto | rage/dp/B  | 089MT35    |
| Redmi 9 P | /Redmi-Pi             | 9,999      |             |             |            |            |
| Redmi 9 P | /Redmi-Pi             | 9,999      |             |             |            |            |
| Redmi 9A  | /Redmi-9/             | \-Midnight | t-3GB-32GE  | 3/dp/B0869  | 97KLZP/ref | =sr_1_14   |
| Redmi No  | /Test-Excl            | 13,999     |             |             |            |            |
| Redmi 9A  | /Redmi-9A             | \-3GB-32G  | B-Storage/  | dp/B08697   | 3W9M/ref   | =sr_1_16   |
| Redmi 9A  | /Redmi-9/             | \-3GB-32G  | B-Storage/  | dp/B08697   | N43M/ref   | =sr_1_17   |
| Redmi 9 ( | /Redmi-S <sub>l</sub> | 8,499      |             |             |            |            |
| Redmi No  | /Redmi-N              | 12,999     |             |             |            |            |
| Redmi 9 P | /Test-Excl            | 10,499     |             |             |            |            |
| Redmi No  | /Redmi-N              | 12,999     |             |             |            |            |
| Redmi 9 A | /Redmi-Ad             | tiv-Carbo  | n-Black-Sto | orage/dp/E  | 309GFPVD9  | Y/ref=sr_  |
| Redmi 9 P | /Test-Excl            | 13,499     |             |             |            |            |
| Redmi 9 P | /Test-Excl            | 10.499     |             |             |            |            |
| 4 6       | Shoot1                |            |             |             |            |            |

Tip: If you want to move down or up while recording itself press F2 or esc that activity go to the point where you want to do the activity and then record

# Installation

- Go to <a href="https://www.uipath.com/">https://www.uipath.com/</a> and click Try
   UiPath for free
- Sign up for through mail and you will get the mail to activate
- Once you sign in, you will get the below screen
- Click Download UiPath Studio
- Then click Community License and you will get Links to watch, learn, academy for learning and exploring UiPath
- Yayy, you have installed UiPath let's get started...





# Uipath Learning

# Resources

- Uipath Academy Best of All
- Uipath Forum For all queries regarding products, workflows so many
- Uipath Documentations To know in depth about the product releases
- Anders Jensen Uipath Youtube Playlist
- Nisarg Kadam Youtube
- Mukesh Kala Youtube
- RPA Specialization Coursera
- Parth Doshi Youtube
- Edureka RPA For Begineers

Academy: https://academy.uipath.com/landing

Forum: https://forum.uipath.com/

Community: https://community.uipath.com/

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