Robotics Process Automation(RPA) Practical Evaluation

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Tool name: Open RPA (https://www.openrpa.dk/openrpa)

1. Brief about the tool

Open RPA is an open-source Robotic Process Automation (RPA) platform that allows organizations to automate repetitive business processes without the licensing costs of commercial RPA tools like UiPath or Automation Anywhere.

Open RPA provides a comprehensive automation platform that includes both attended (human-supervised) and unattended (fully automated) bot capabilities. It's designed to democratize process automation by making RPA technology accessible to organizations of all sizes.

Key Features:

- **Visual workflow designer** - drag-and-drop interface for building automation workflows
- **Multi-platform support** - works with Windows applications, web browsers, databases, and APIs
- **Scalable architecture** - can handle multiple bots running simultaneously
- **Integration capabilities** - connects with various systems including SAP, Oracle, web services, and Office applications
- **Security features** - includes user management, audit trails, and encrypted communications

Core Components:

- **OpenRPA Client** - the main application where users design and run automations
- **OpenFlow** - workflow engine and web-based management portal
- **NodeRED integration** - for creating complex automation flows
- **Robot framework** - for executing the automated processes

Common Use Cases:

- Data entry and migration
- Report generation
- Invoice processing
- Customer service automation
- System integration tasks
- Compliance and audit processes

Benefits:

- Cost-effective alternative to commercial RPA solutions
- Active open-source community support
- Customizable to specific business needs
- No vendor lock-in
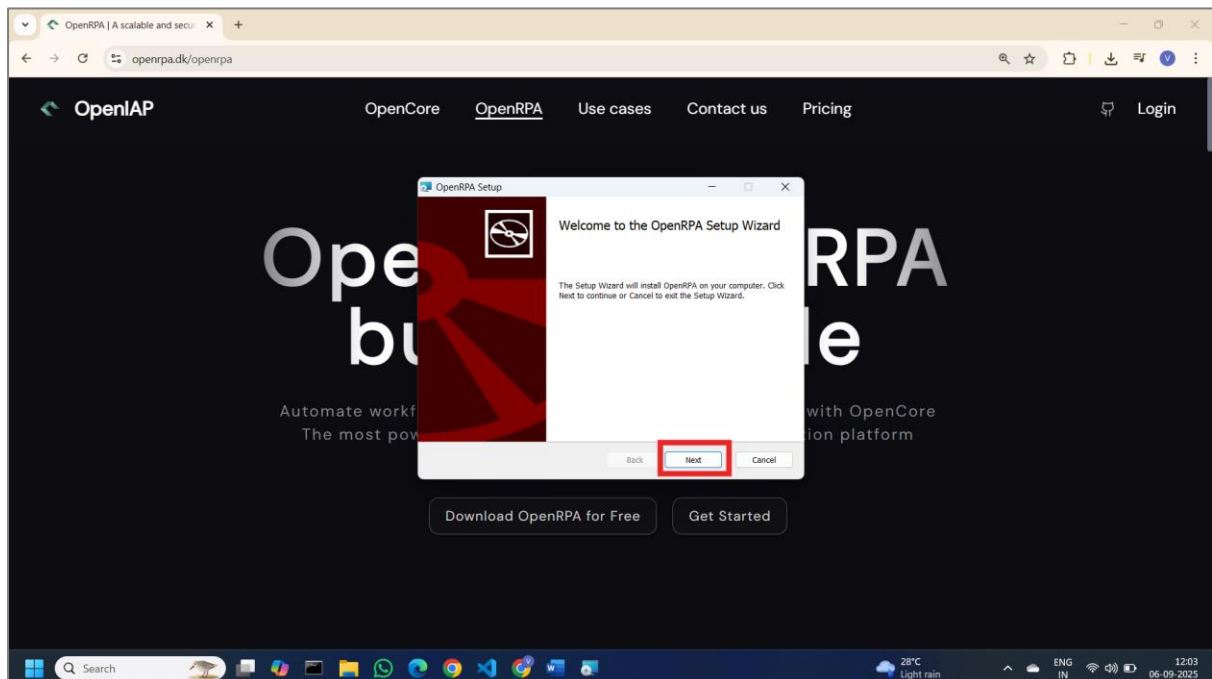- Transparent development process

2. Installation steps

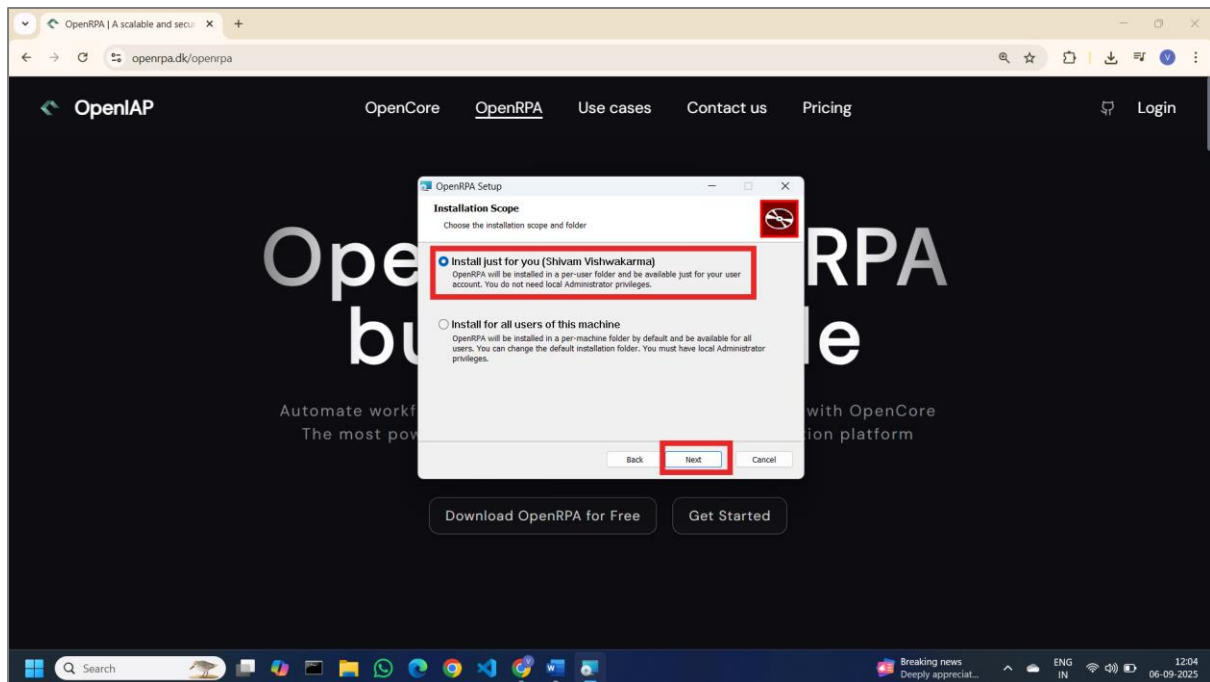1. Go to OpenRPA website and click on Download button and MSI Installer will be downloaded.
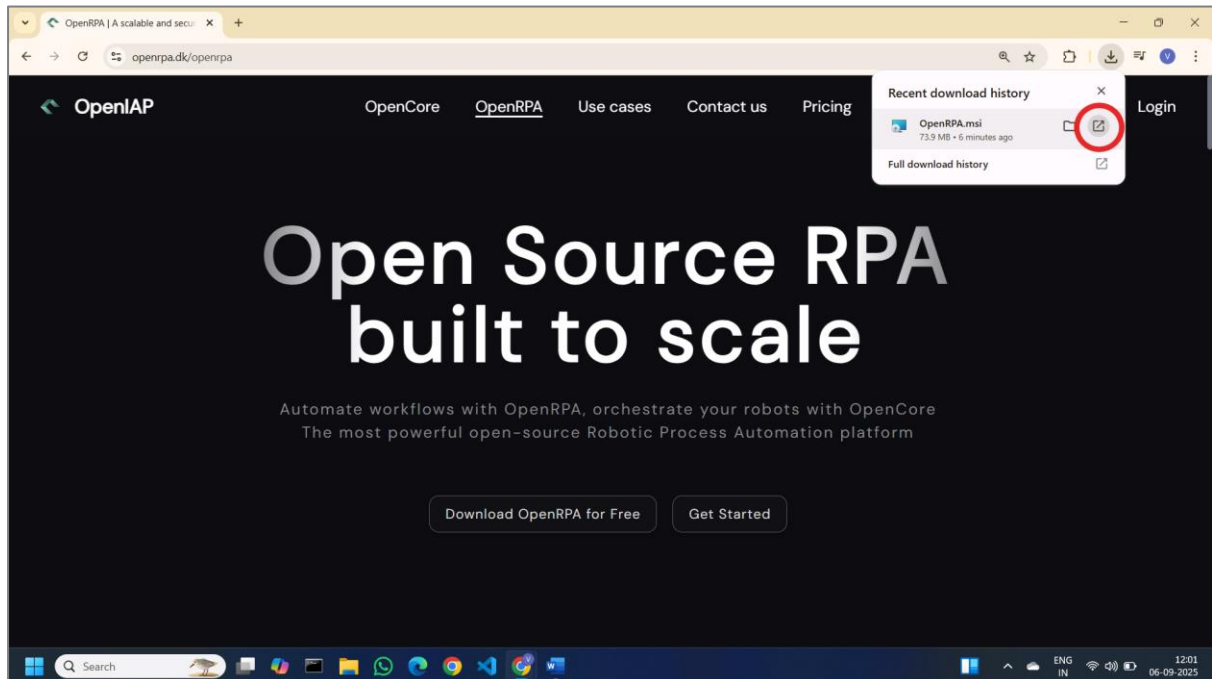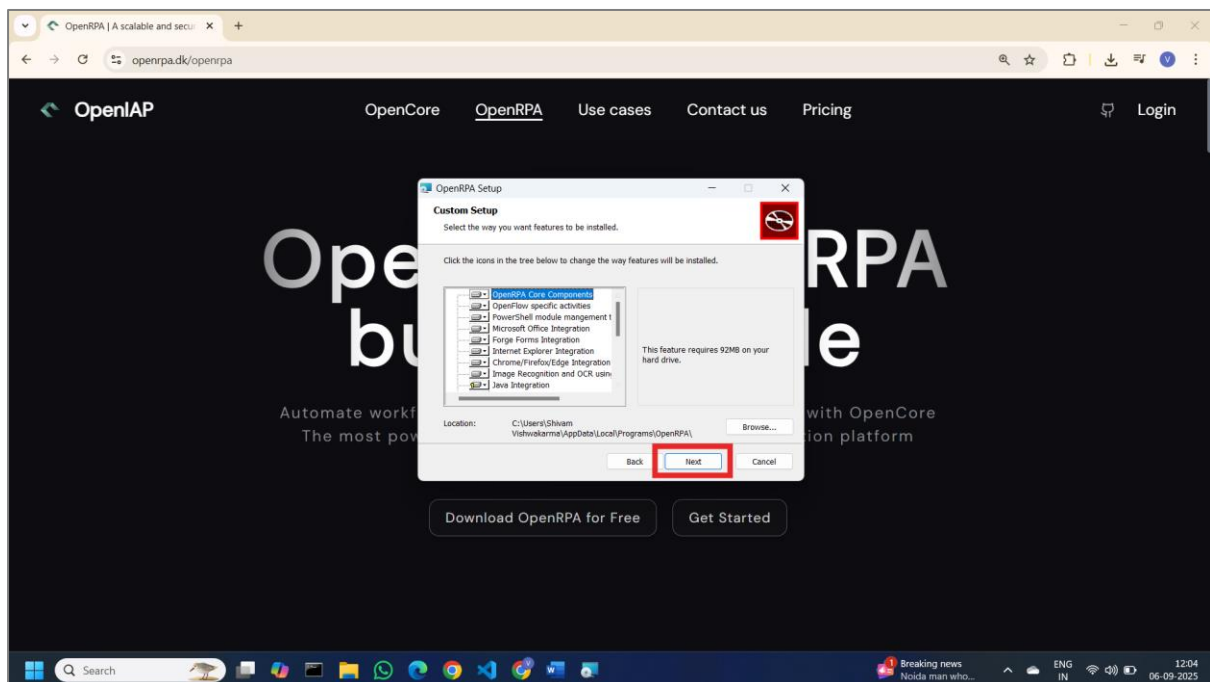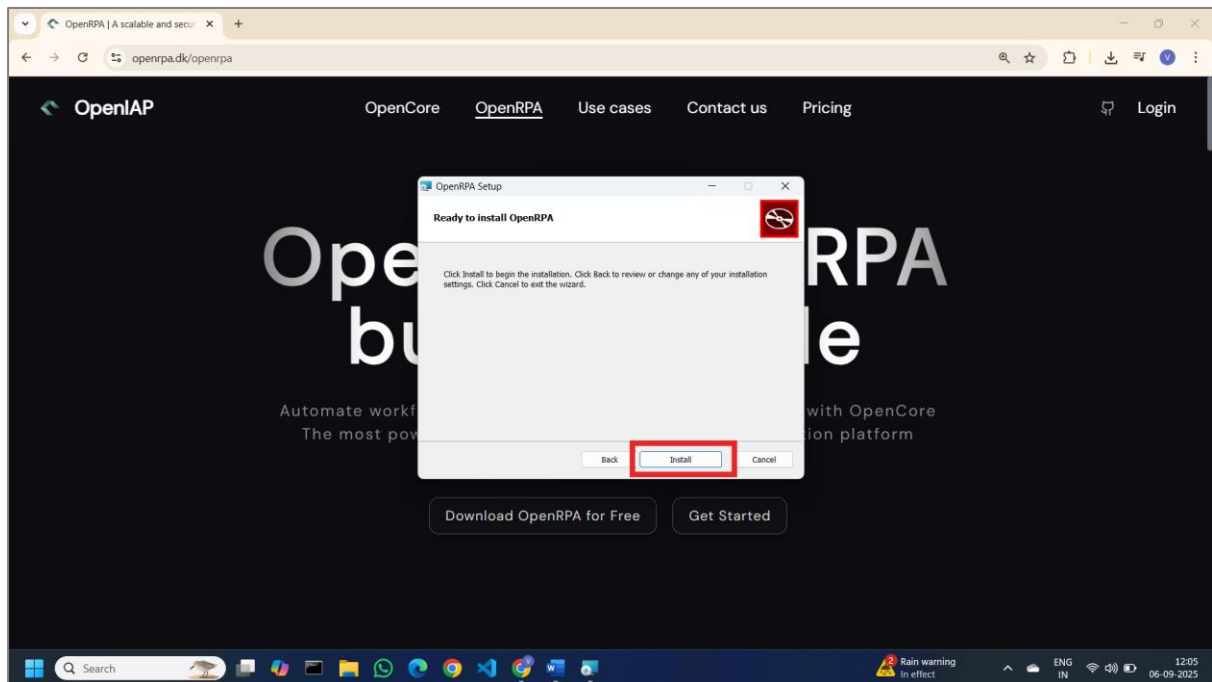

2. Run the MSI Installer

Click on "Next" Button

Select the Scope as per your preference and click on "Next" Button
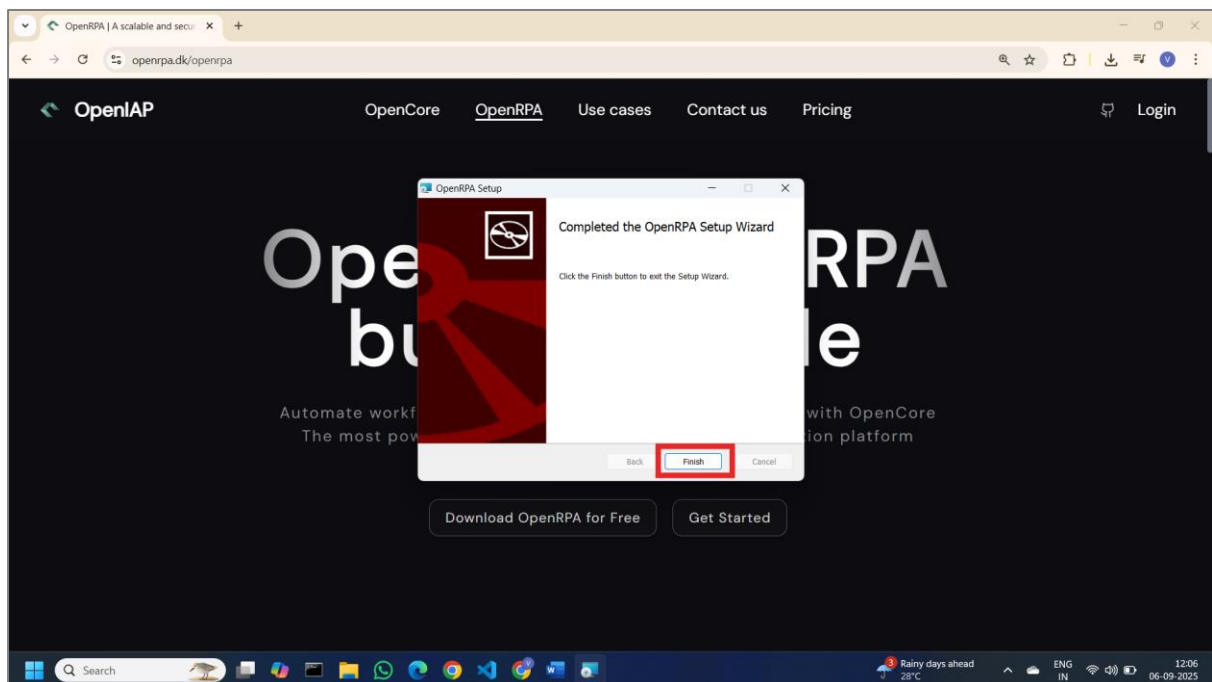

Select the Installation path as per preference and click on "Next" Button
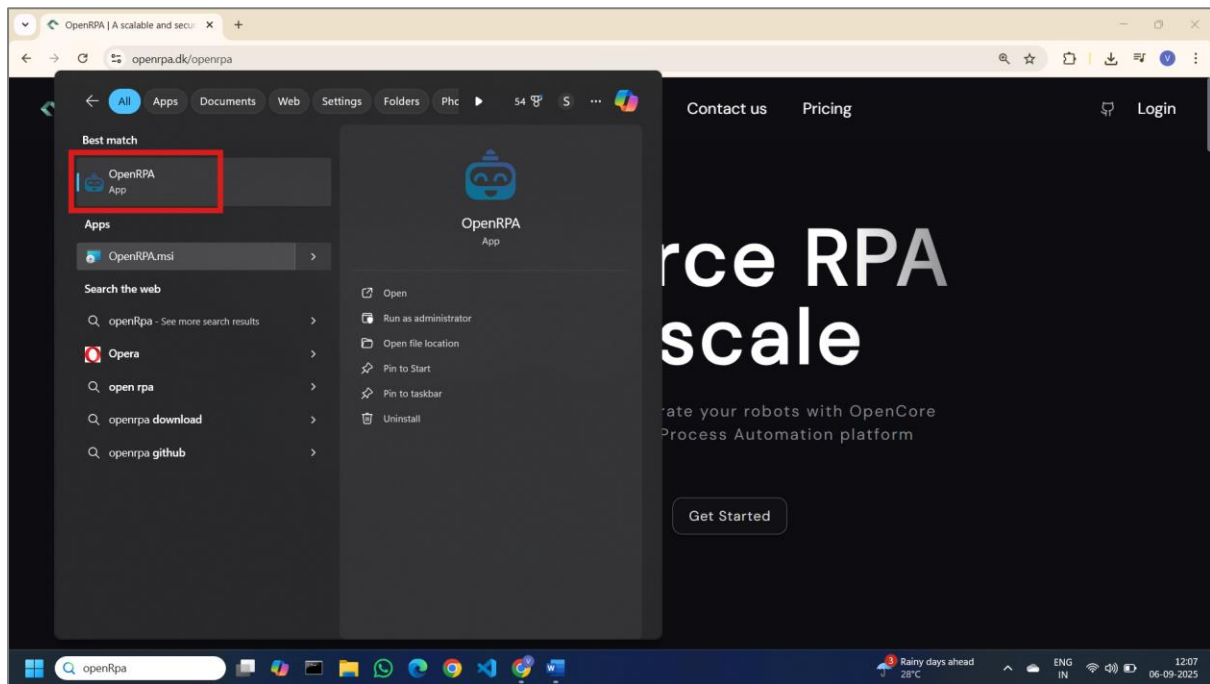
click on "Install" Button

Installation will be started after execution completed click on "Finish" Button
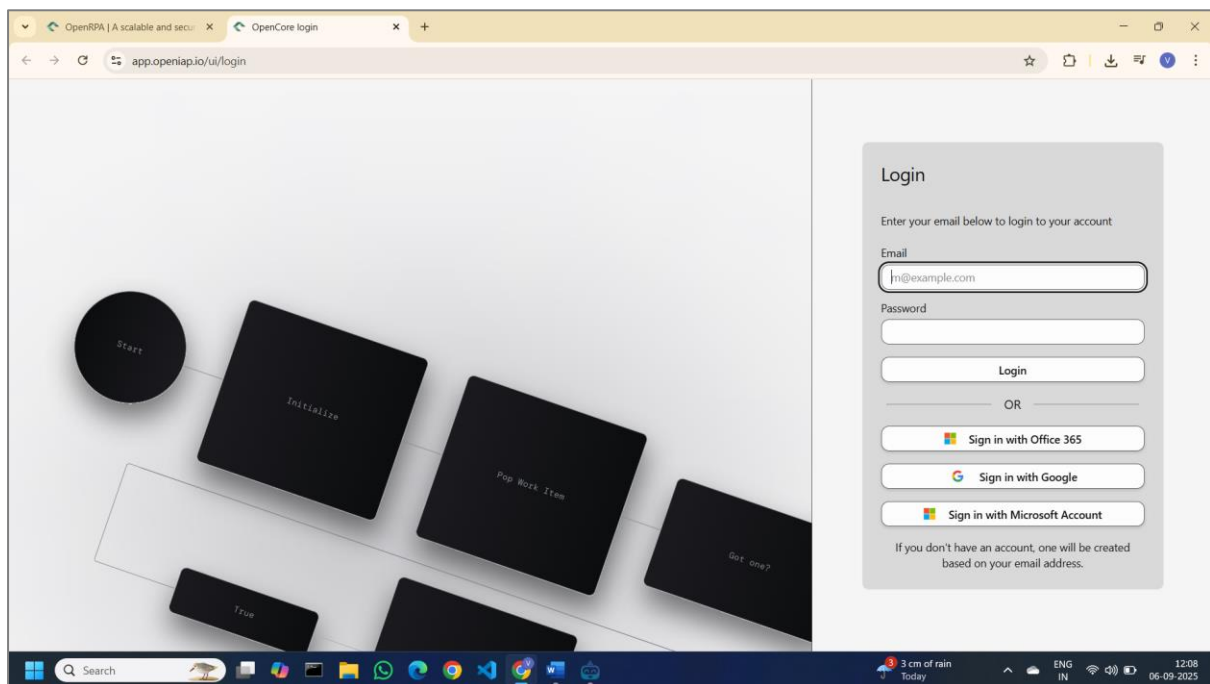

OpenRPA is successfully install in our device but before creating project we need to have and OpenRPA Account and a workspace to start with workflows.
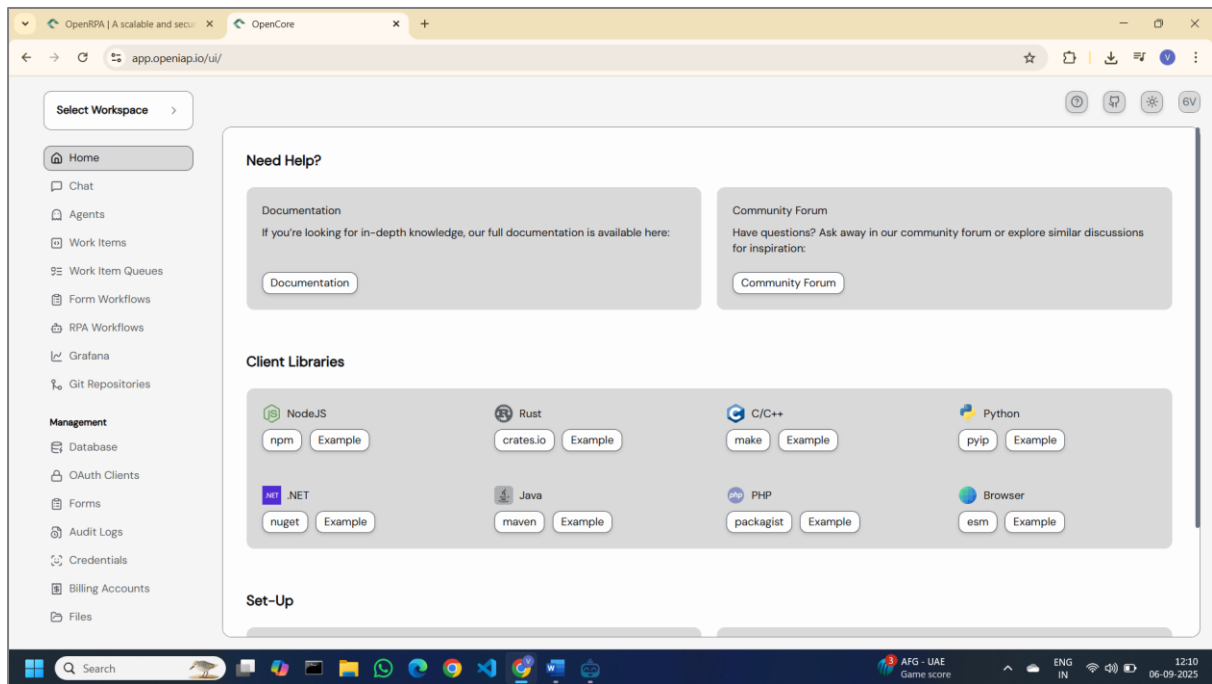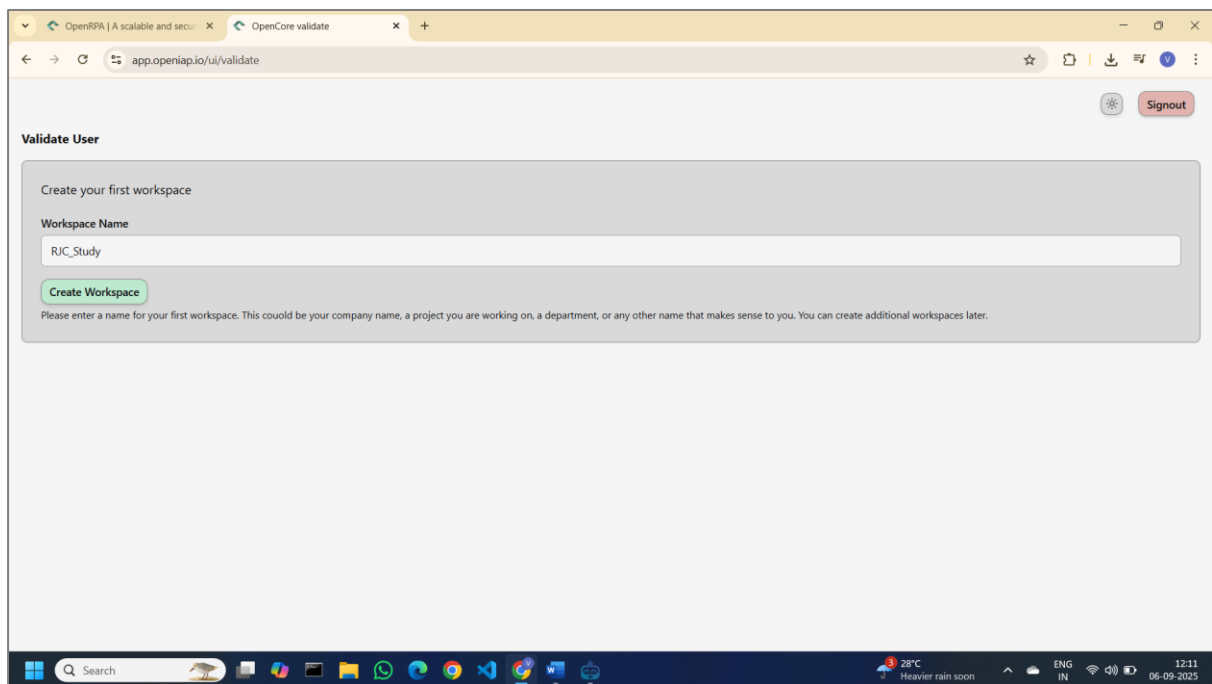
Search for "OpenRPA" on windows search and open it.

And pop up will show and navigate you to OpenRPA login page. Create or login to account
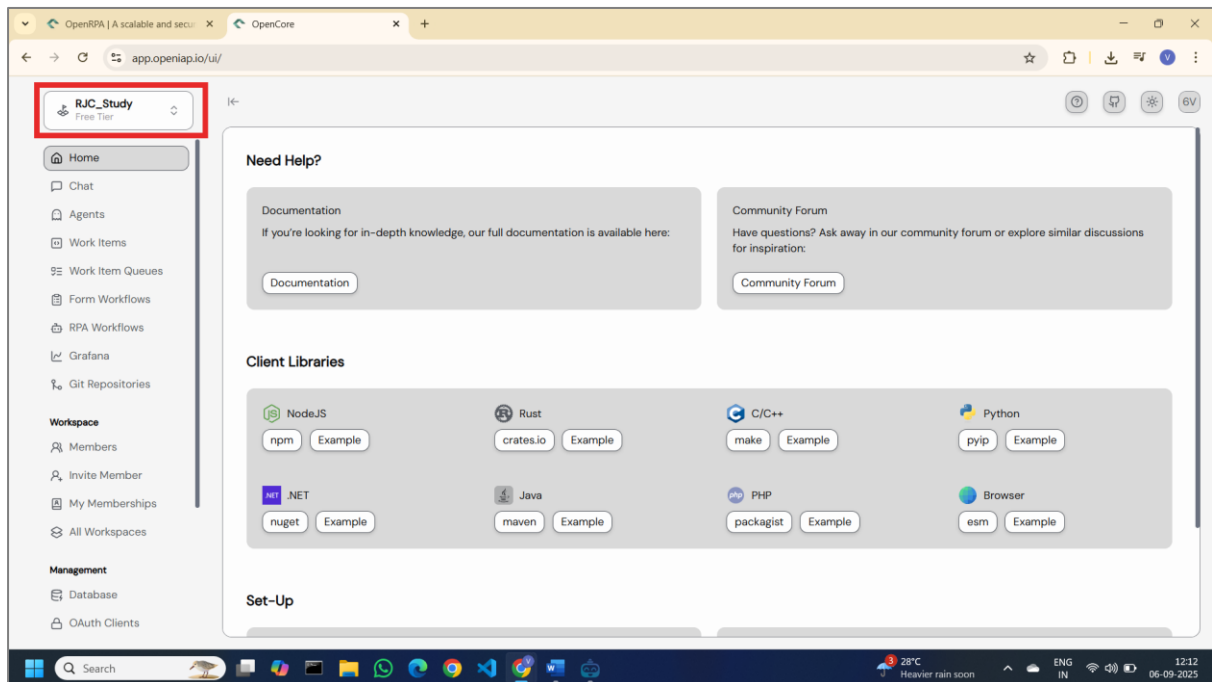
After login Dashboard screen will appear. Click on profile icon
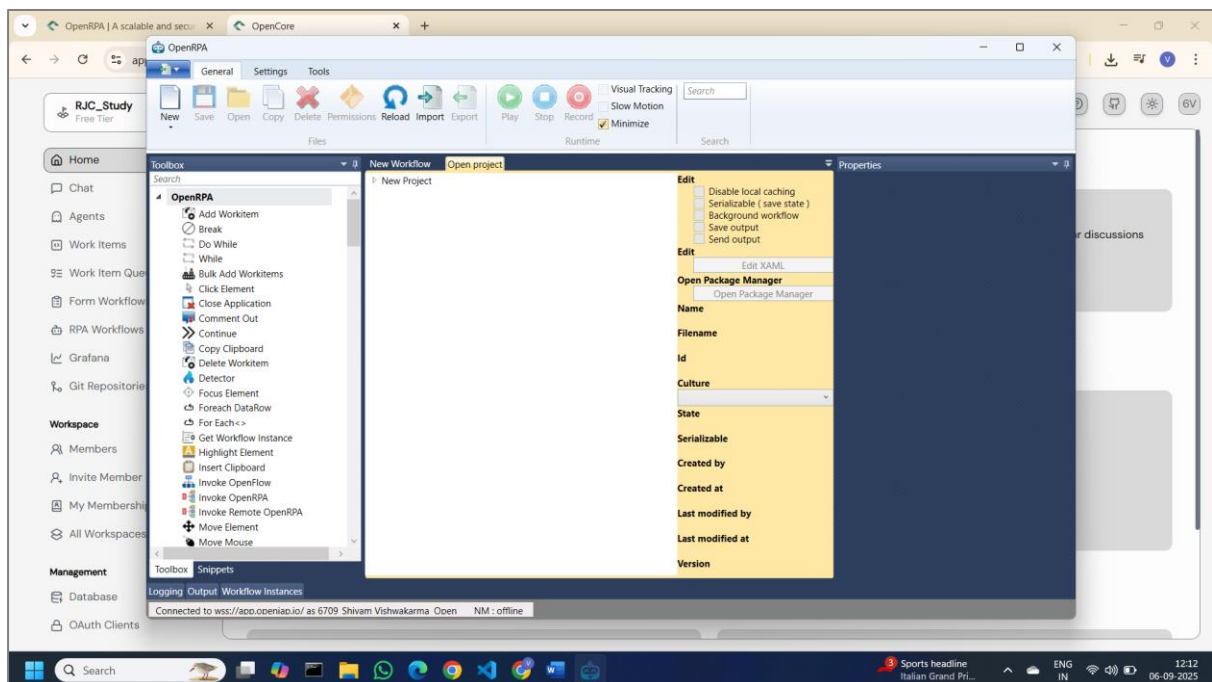

It will ask to create the Workspace. Give a name of workspace

As per image below Workspace is successfully created and showing on dashboard.
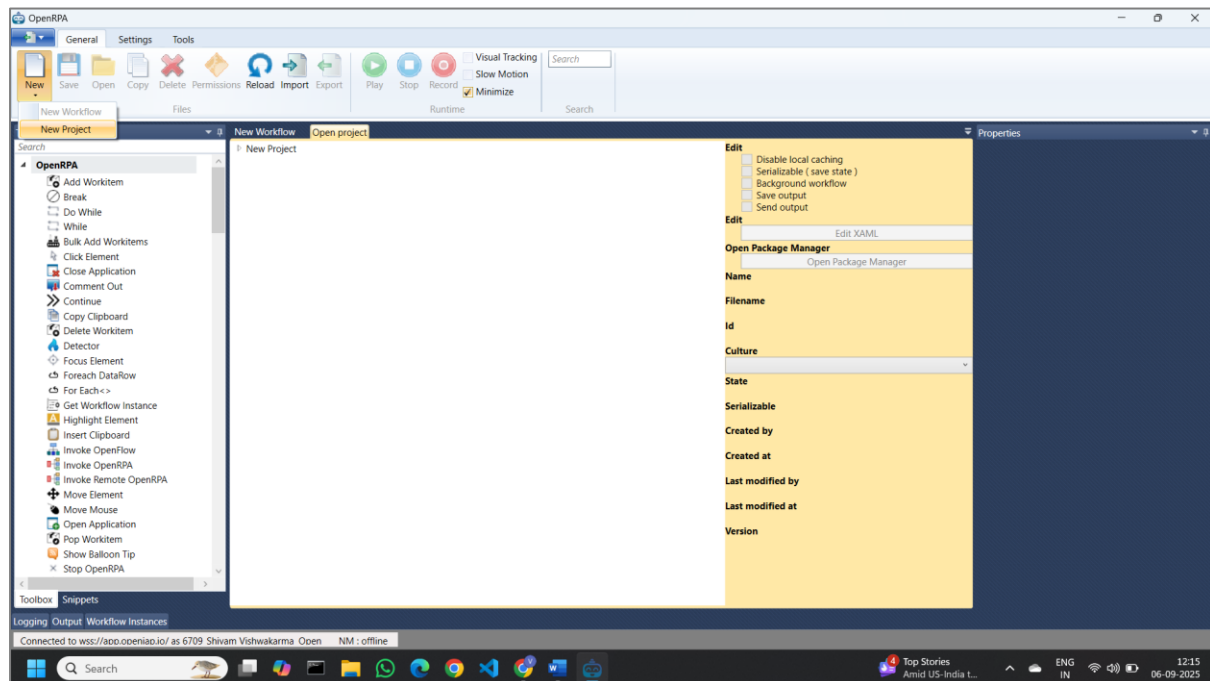

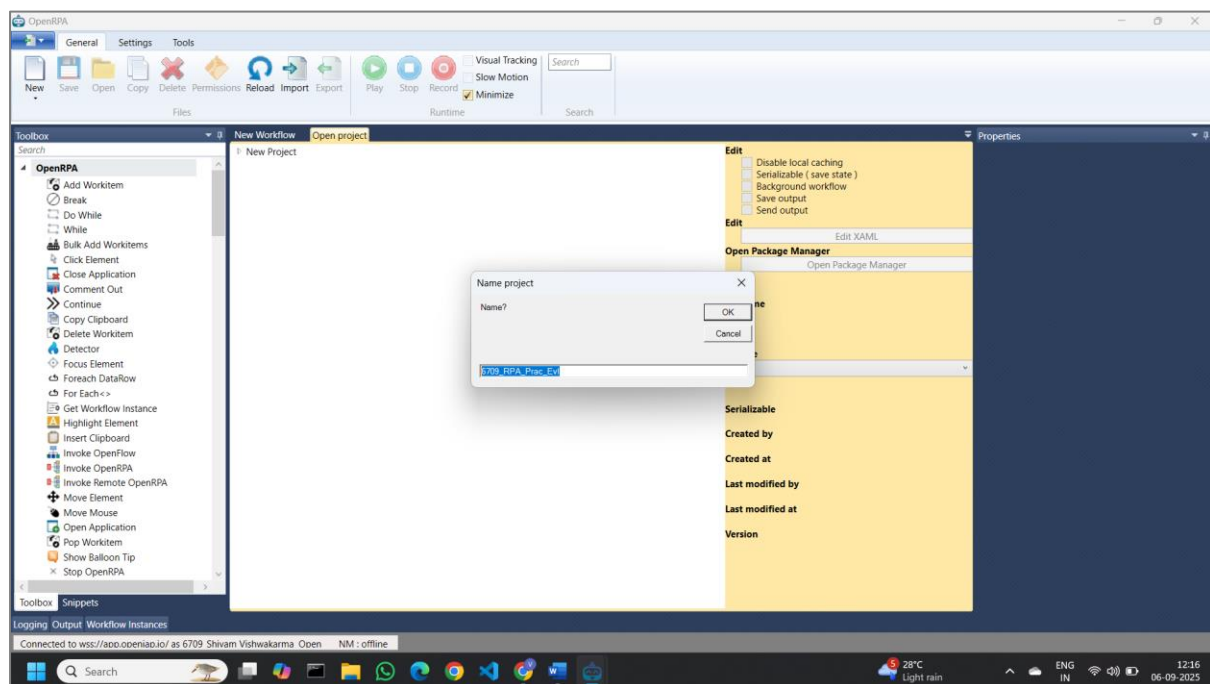We are good to go now. Run the OpenRPA application again
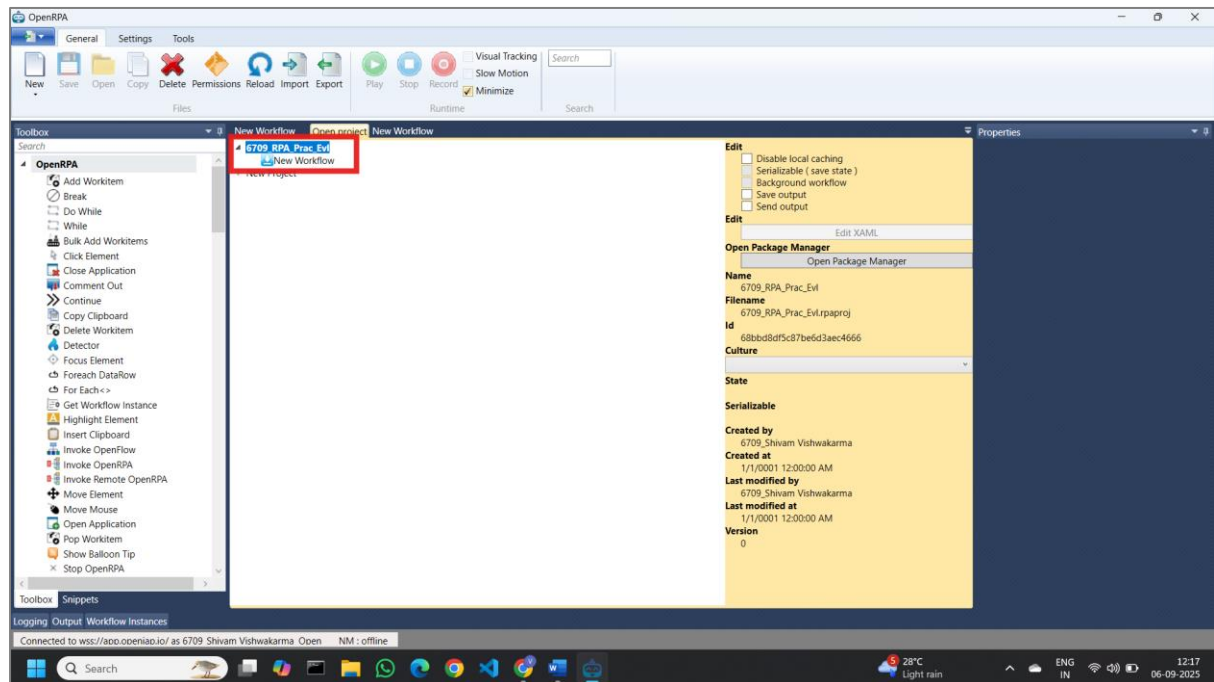
3. Perform task using the tool

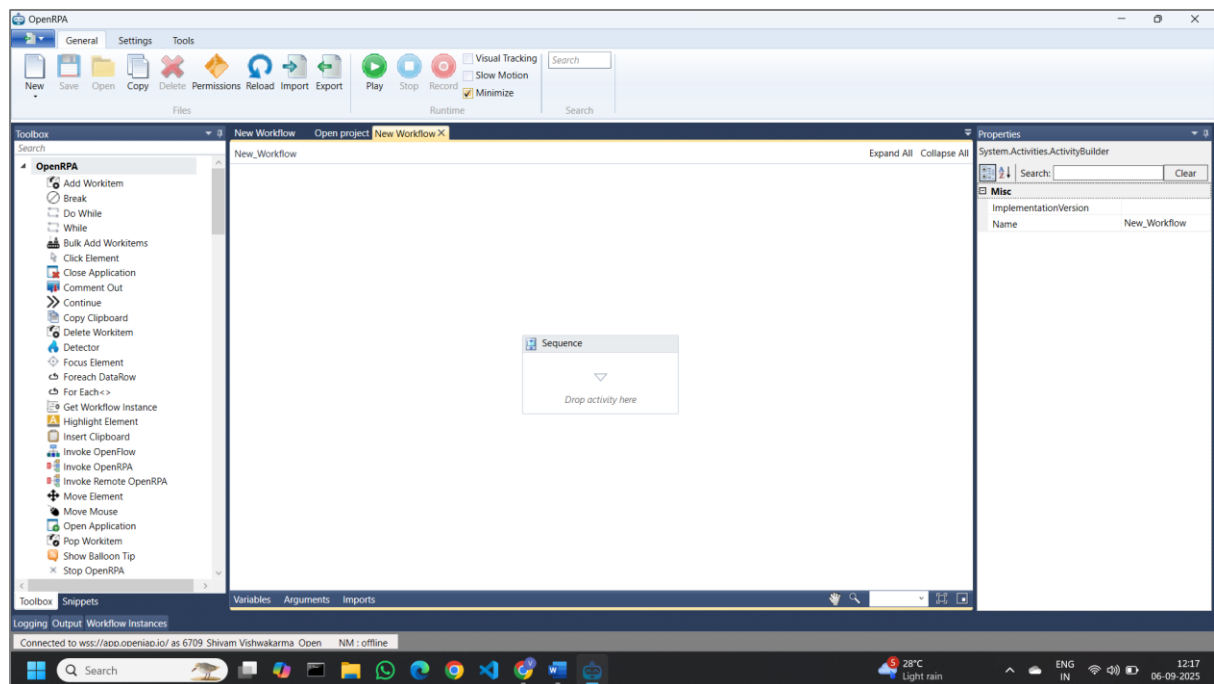Start OpenRPA, Go to New → New Project

Name the project
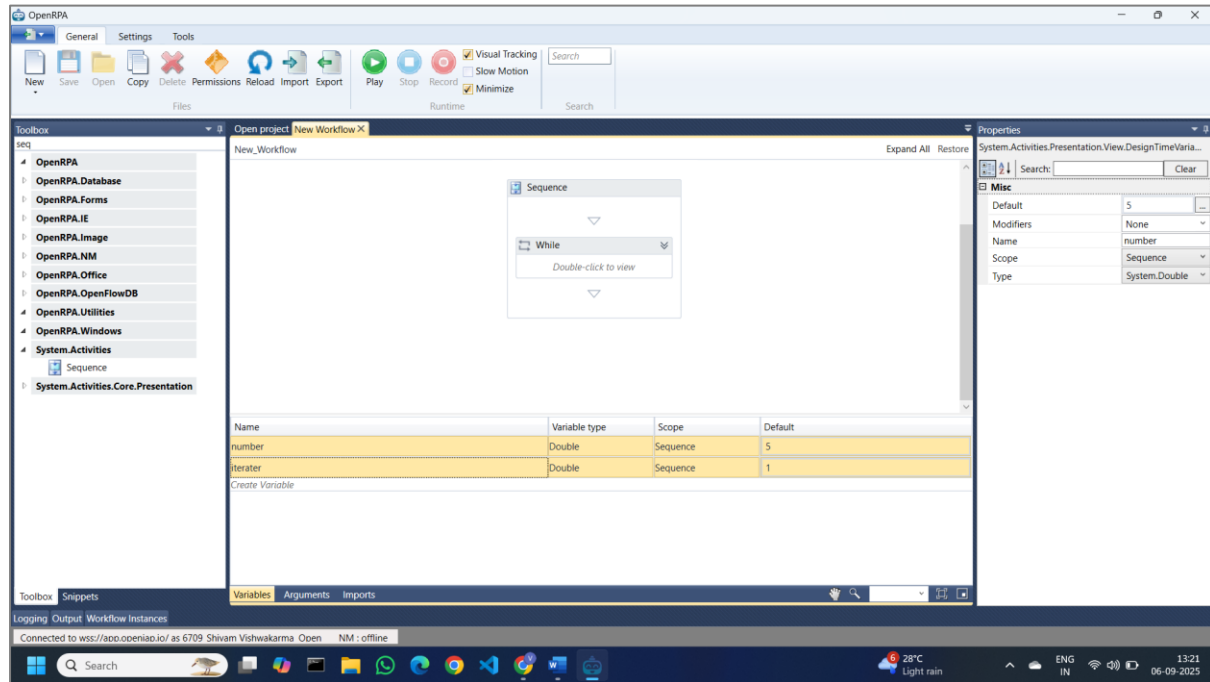
Project created. Click on "New Workflow"

New Workflow screen. By default we get "sequence"
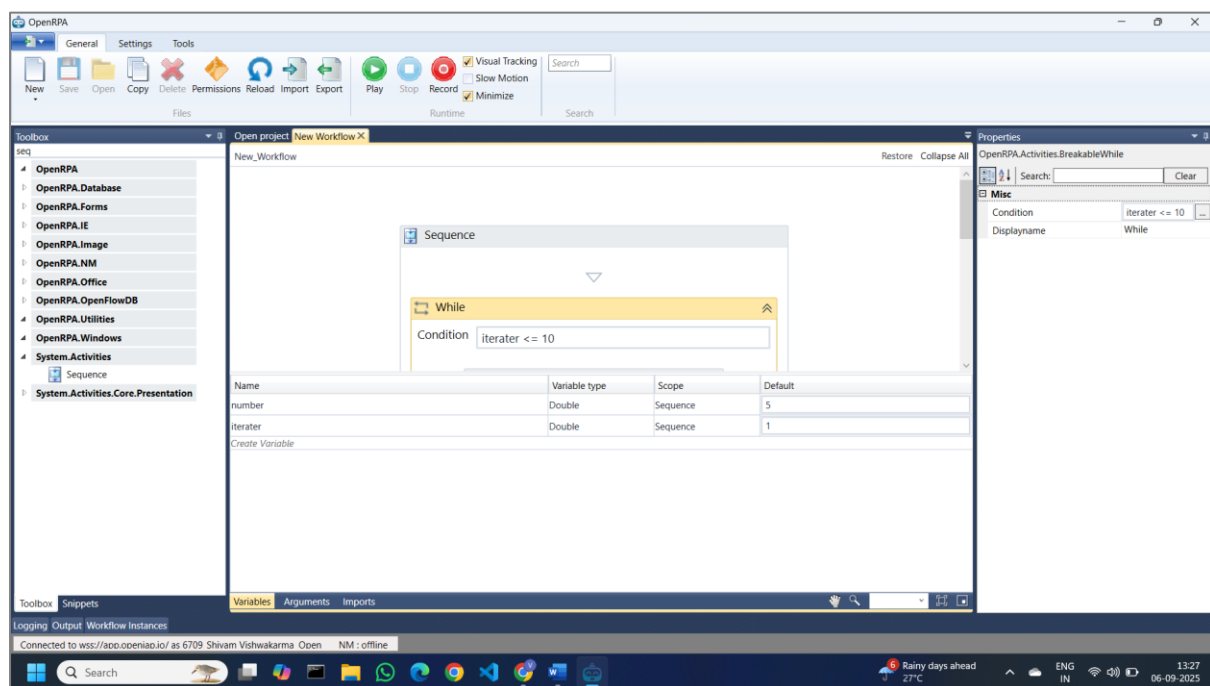
Go to Variables option and create 2 variables as below

| Sr No.	Variable name	Data Type	Scope	Default Value
1	Number	Double	Sequence (by Default)	5 (Any whole number greater than 0)
2	iterater	Double	Sequence	1

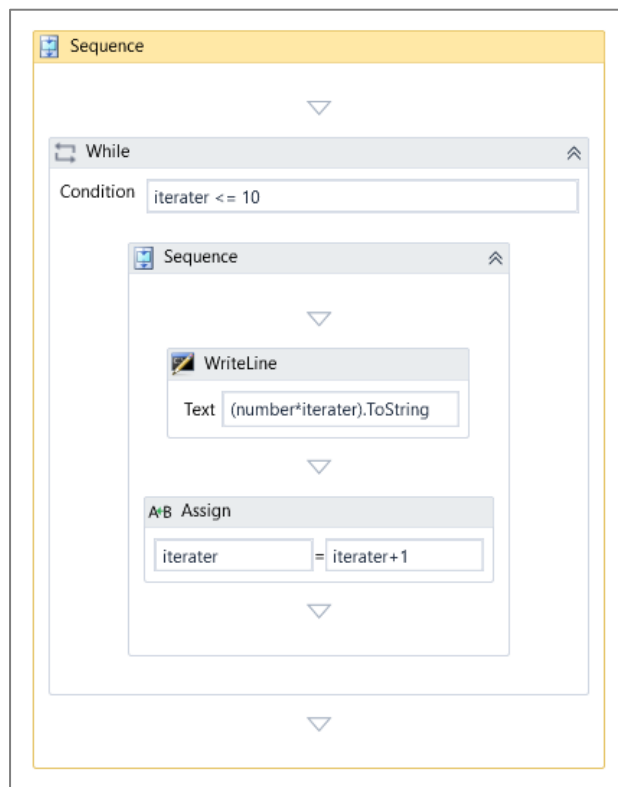Add "While" activity from Toolbox and give condition: *iterater <= 10*

Inside "while" add "WriteLine" & "Assign" activity from toolbox and place as per below image

Expression for "while": *(number*iterater).ToString*

Expression for "Assign": *iterater = iterater+1*
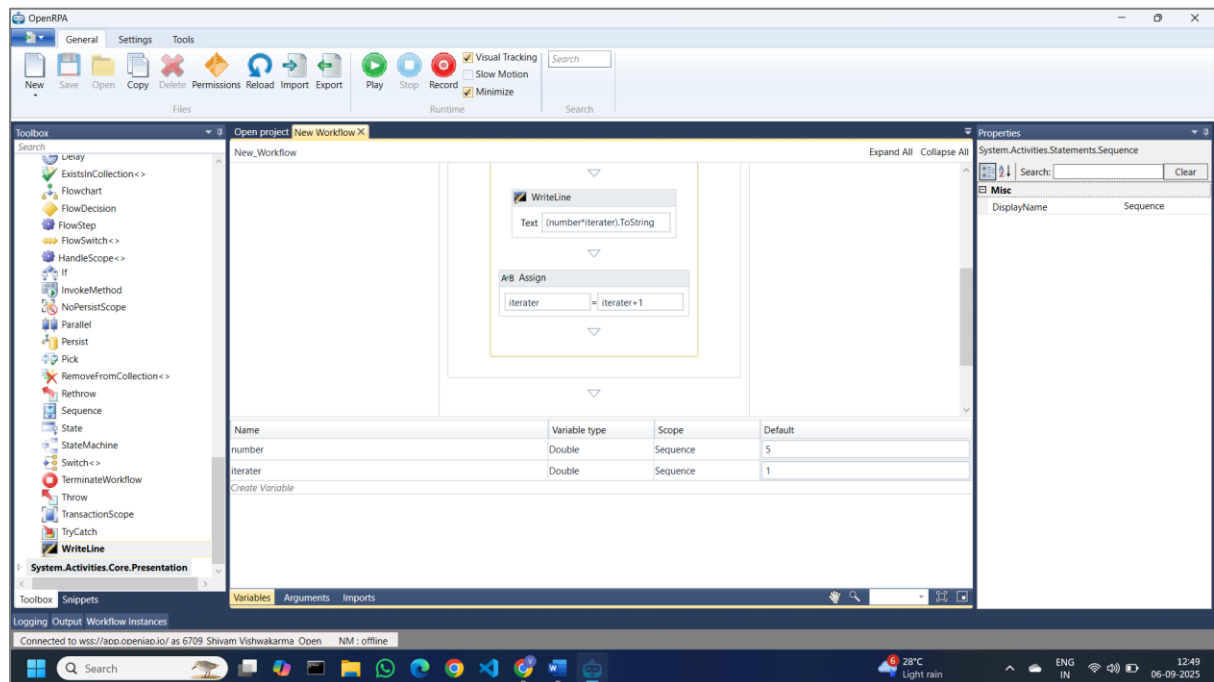
Final Workflow

Run the Workflow and you will get table of the number variable (5)