

Projektarbete inom affärssystem

PROAFF - 7,5hp HT2023



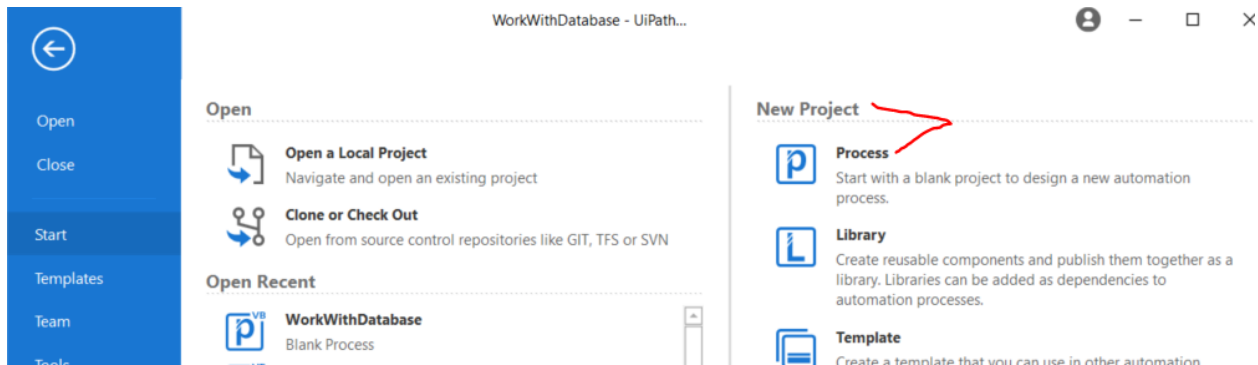
Tutorial 1 (for older UiPath version) – Gmail/email automation

v00

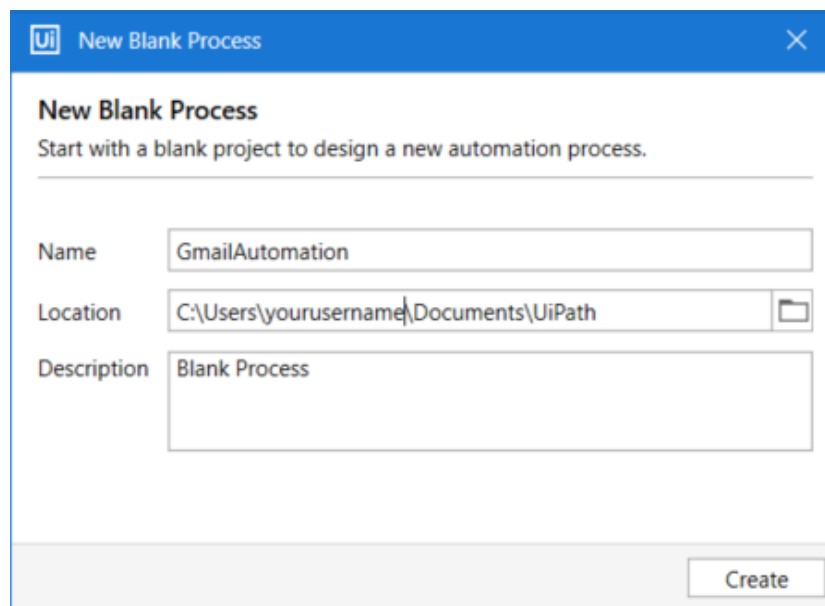
1. Email Automation

In this task, you will create a new project using a sequence that reads email from a Gmail account, displays the top ten mails on a message box, and saves the data in an Excel spreadsheet.

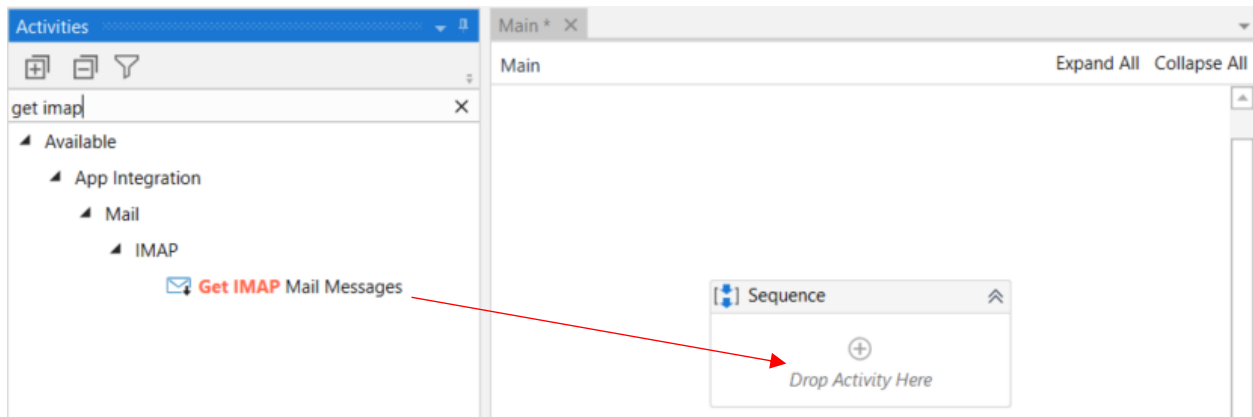
- Save and Close your current project.
- Start UiPath, select Process under **New Project** from the Start tab as illustrated below.



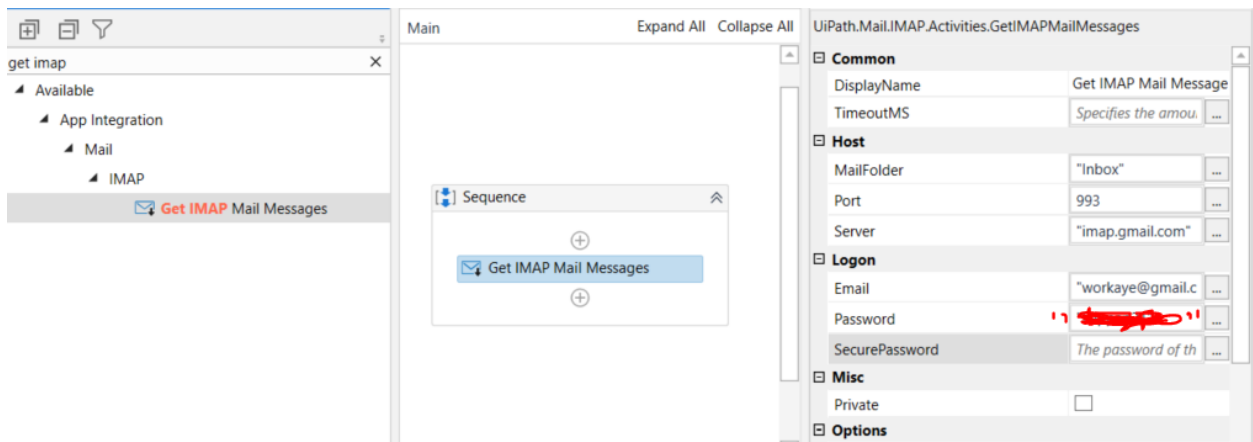
- In the **New Blank Process** dialog box, illustrated below, enter “GmailAutomation” under **Name**.
- Specify the location of your file under **Location**.
- Specify what your robot will do under **Description**.
- Click on **Create**.



- Search for IMAP from the **Activities** pane, and add **Get IMAP Mail Messages** to the **Sequence** activity icon in the designer panel.



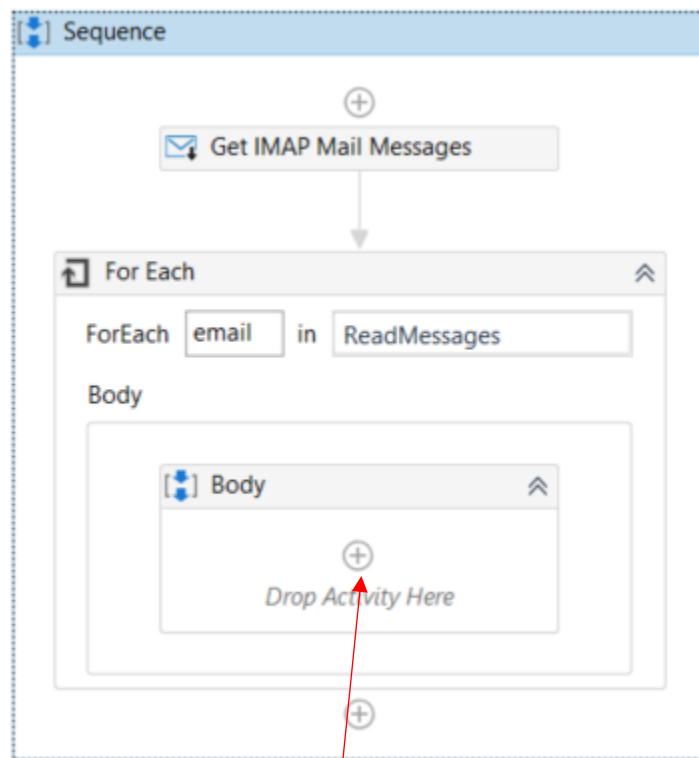
- Select **Get IMAP Mail Messages** icon from your designer panel and set the following values under the **Properties** panel as illustrated below under **Host** and **Logon**.
 - **MailFolder** – “Inbox”
 - **Port** – 993
 - **Server** – “imap.gmail.com”
 - **Email** – “your email address”
 - **Password** – “your password”



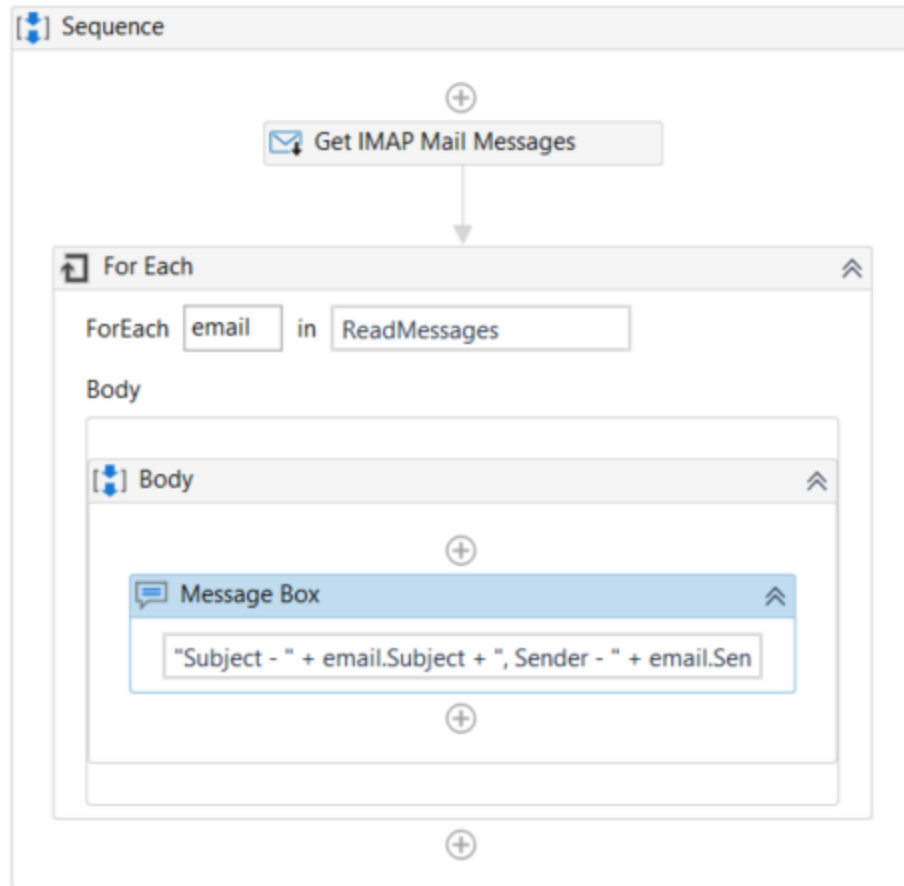
- Under the **Properties** panel as illustrated below, under **Options** and **Outputs**, set the following values.
 - **Top** – 10
 - **Outputs** – click in **Messages** > Press Ctrl + K to create the variable for **Messages** as illustrated below, and the variable to **ReadMessages** (this will store the top 10 messages)

Misc	
Private	<input type="checkbox"/>
Options	
DeleteMessages	<input type="checkbox"/>
MarkAsRead	<input type="checkbox"/>
OnlyUnreadMessages	<input checked="" type="checkbox"/>
SecureConnection	Auto
Top	10
Output	
Messages	ReadMessages

- Drag and Drop the **For Each** activity below the **GET IMAP Mail Messages** activity icon as illustrated below
- Under **For Each** box, enter *email*, and under the **in** the text box, enter *ReadMessages*



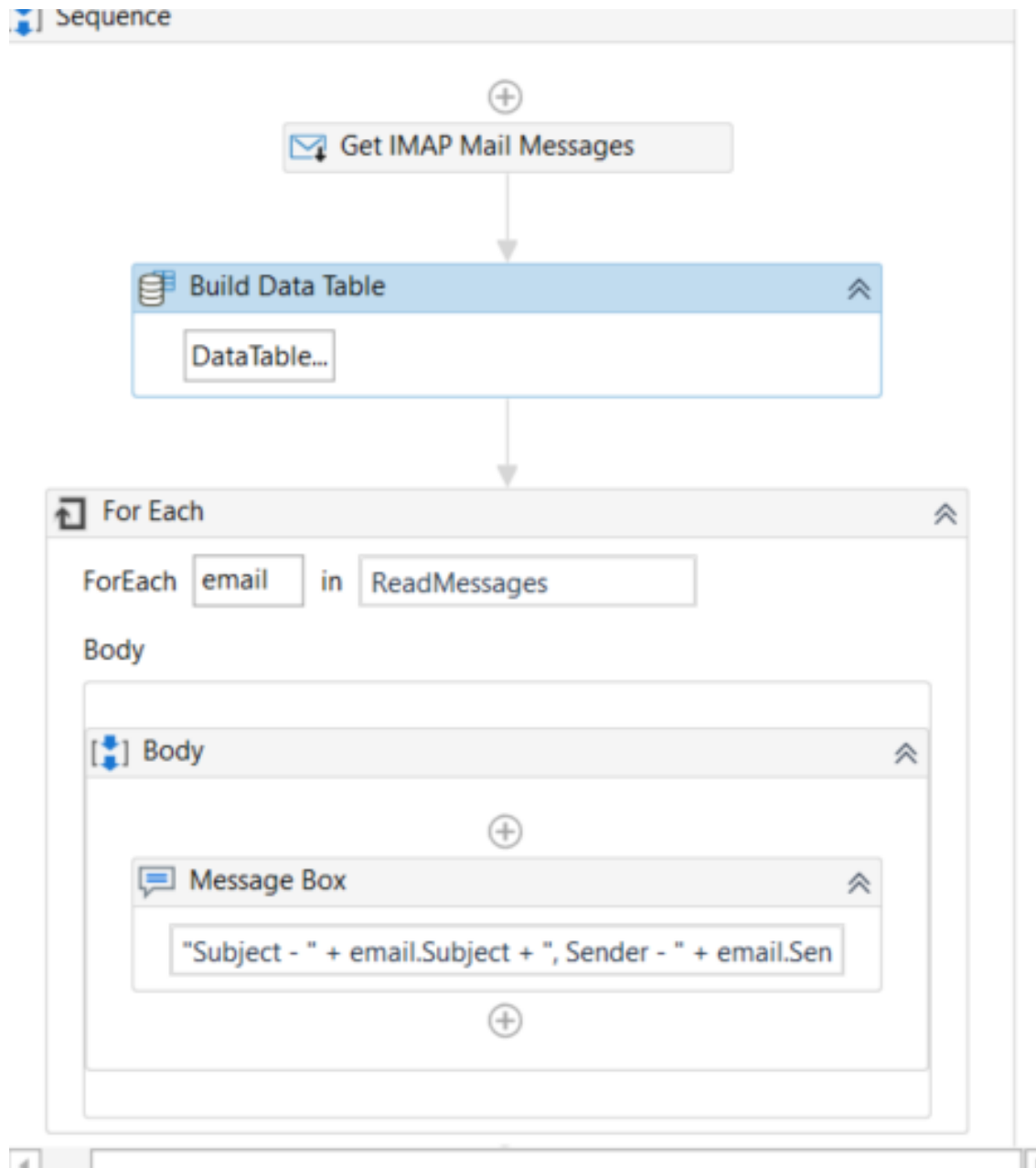
- Under **Body** of the **For Each**, add a **Message Box** activity.



- In the Message Box's text box, add:
`"Subject - " + email.Subject + ", Sender - " + email.Sender.ToString() + ", Email - " + email.Body`
- In the properties panel of **Message Box**'s set the Caption to "Your unread emails"
- Create a new variable Id with variable type int32, and Scope - Sequence

Adding unread emails to an excel file.

- Add Build Data Table activity below the Get IMAP Mail Message



- For **Build Data Table** > under **Properties** pallet set a new variable.
 - press Ctrl+K
 - enter *MyDataTable*

Set Var: MyDataTable

- Click on **DataTable...** of **Build Data Table** activity icon.
- Click on x highlighted in yellow as illustrated below to remove Column1 and Column2.

Build Data Table

	Column1 (String)	Column2 (Int32)
+		
x	text	1
x		

OK Cancel

- Click on + to add a new Column (Id, Sender, Subject, Date, Body)

The screenshot shows the 'Edit Column' dialog box in Microsoft Access. The 'Column Name' is 'Id'. The 'Data Type' is 'int32'. Other options include 'Allow Null' (unchecked), 'Auto Increment' (unchecked), 'Default Value' (empty), 'Unique' (unchecked), and 'Max Length' (-1). A yellow warning icon at the bottom indicates that the data type has changed, affecting all data in the column. The 'OK' and 'Cancel' buttons are at the bottom right.

New Column

Column Name: Sender

Data Type: String

Allow Null: ☒

Auto Increment: ☐

Default Value:

Unique: ☐


Max Length: -1

OK Cancel

The screenshot shows the 'New Column' dialog box in Microsoft Access. The title bar includes the Access icon and the text 'New Column'. The dialog contains the following fields and values:

- Column Name:** Subject
- Data Type:** String
- Allow Null:** ☒
- Auto Increment:** ☐
- Default Value:** (empty field)
- Unique:** ☐
- Max Length:** -1

At the bottom of the dialog are two buttons: 'OK' and 'Cancel'.



characters. If the column has no

OK Cancel

The screenshot shows the 'New Column' dialog box in Microsoft Access. The title bar includes the Access icon and the text 'New Column'. The dialog contains the following fields and controls:

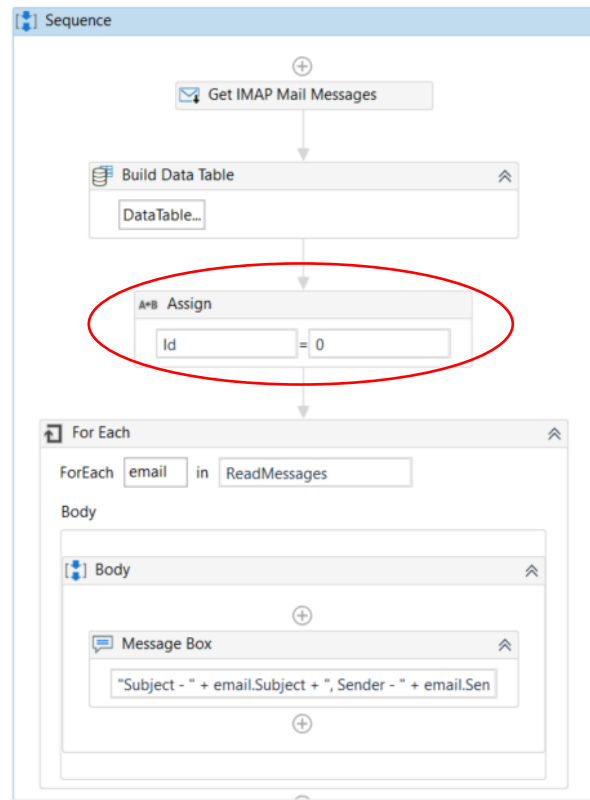
- Column Name:** A text box containing the word 'Body'.
- Data Type:** A dropdown menu currently set to 'String'.
- Allow Null:** A checkbox that is checked.
- Auto Increment:** A checkbox that is unchecked.
- Default Value:** An empty text box.
- Unique:** A checkbox that is unchecked.
- Max Length:** A text box containing the value '-1'.

At the bottom of the dialog are two buttons: 'OK' and 'Cancel'.

The screenshot shows a 'Build Data Table' dialog box. It features a table with five columns: 'Id (Int32)', 'Sender (String)', 'Subject (String)', 'Date (String)', and 'Body (String)'. Each column header includes a '+' icon on its left and an 'x' icon on its right. A single data row is present below the headers, with an 'x' icon in each of its five cells. The dialog also has standard window controls at the top and 'OK' and 'Cancel' buttons at the bottom.

	+ Id (Int32)	x	+ Sender (String)	x	+ Subject (String)	x	+ Date (String)	x	+ Body (String)	x
x										

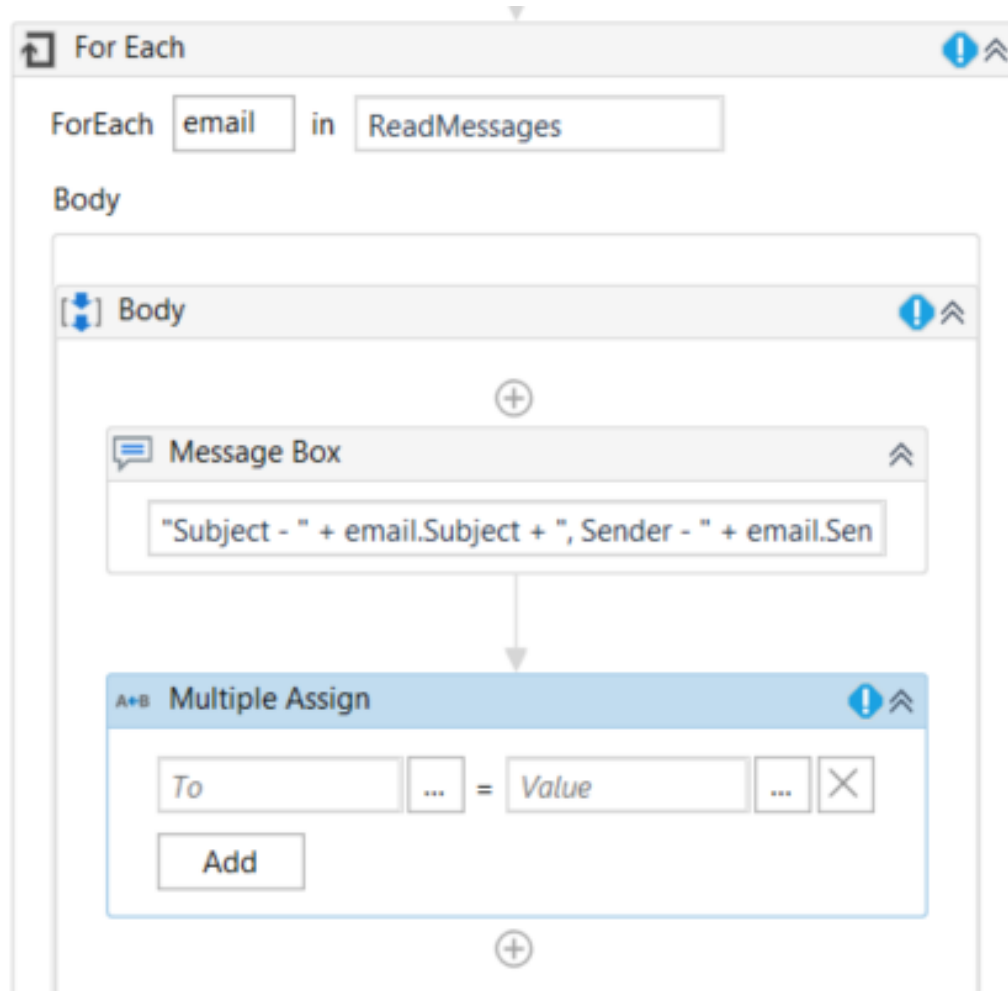
- Add **Assign** activity below **Build Data Table** activity, and assign Id to 0



- Add the following String variables with Body Scope, StrSender, StrSubject, StrBody, StrDate

Name	Variable type	Scope
StrSender	String	Body
StrSubject	String	Body
StrBody	String	Body
StrDate	String	Body
ReadMessages	List<MailMessage>	Sequence
Id	Int32	Sequence
MyDataTable	DataTable	Sequence

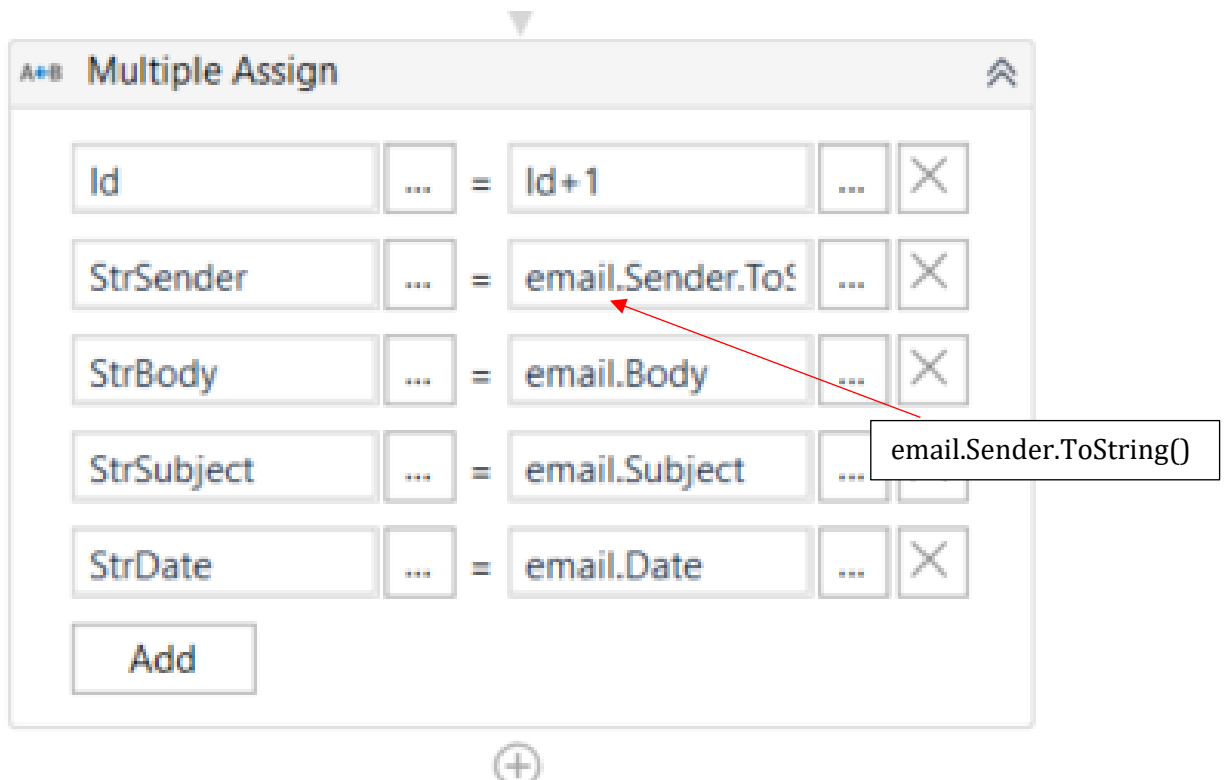
- Add **Multiple Assign** activity below **Message Box** in the **Body** Sequence activity, and add the following under to and value



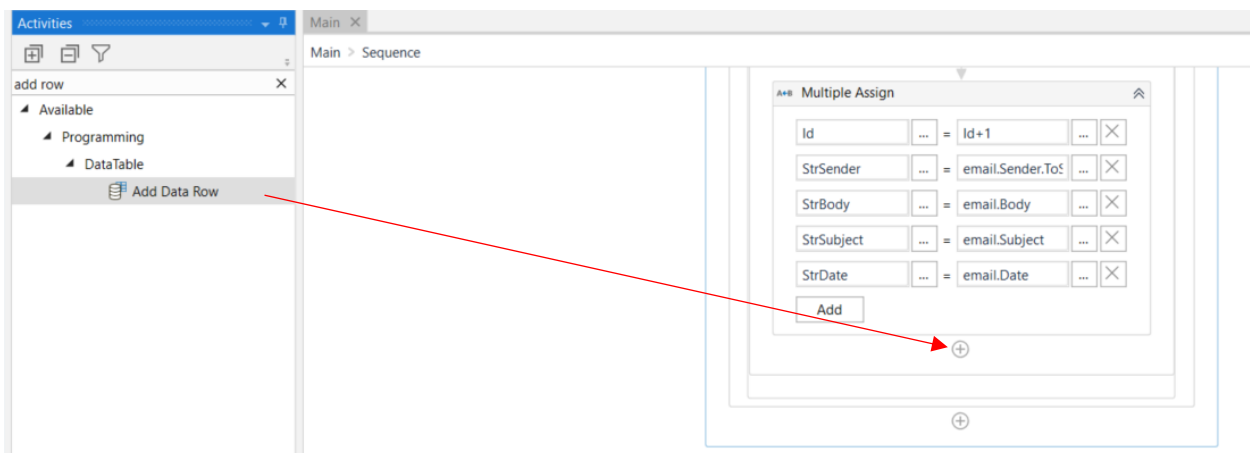
- Under **To** enter *Id* and under **Value** enter **Id +1**

- Click Add > enter the following information

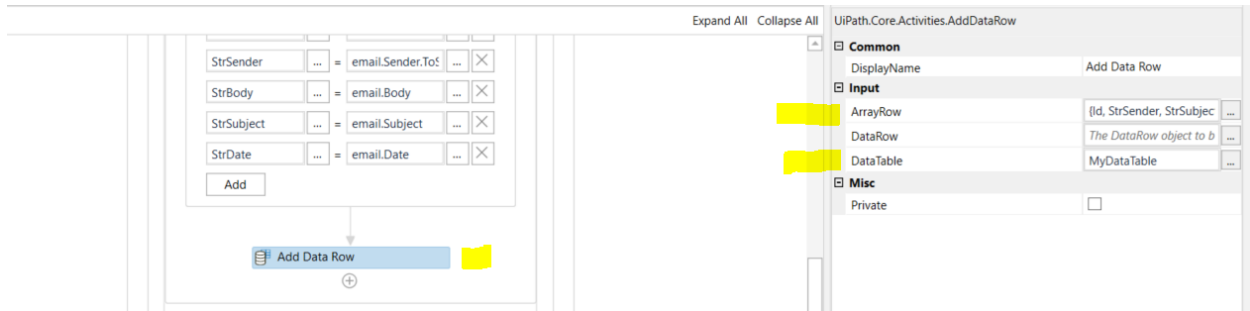
To	Value
Id	Id+1
StrSender	email.Sender.ToString()
StrBody	email.Body.ToString()
StrSubject	email.Subject
StrDate	email.Date



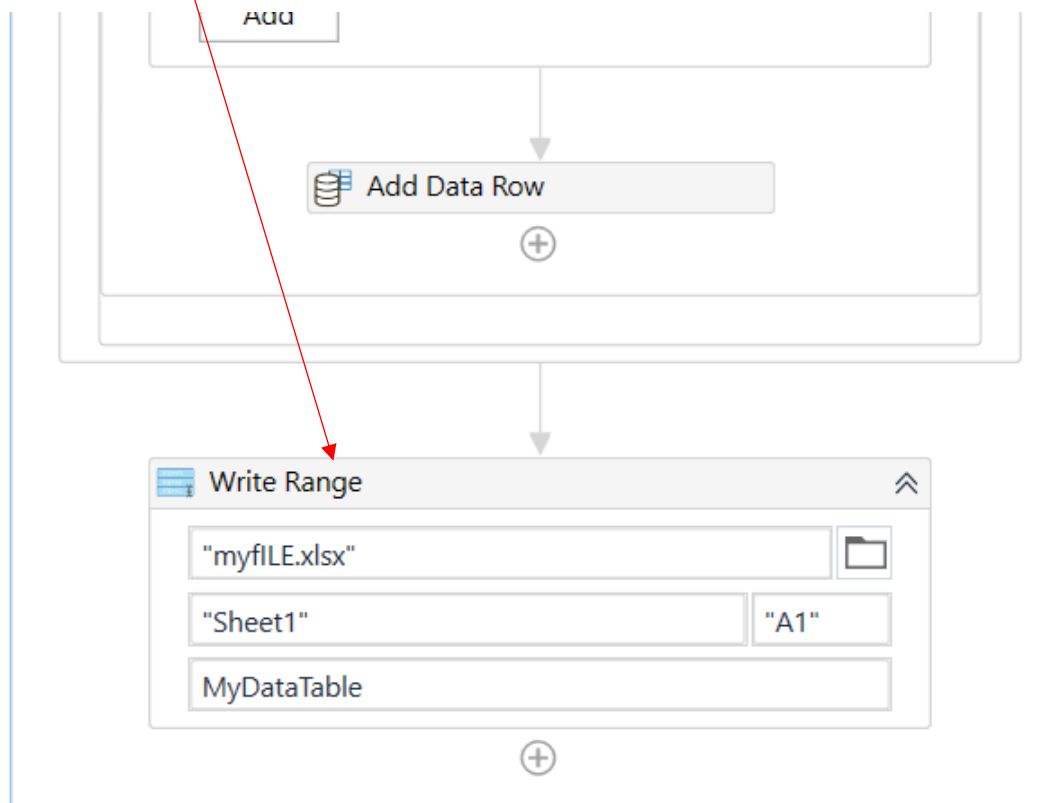
- Add **Add Data Row** activity under Multiple Assign activity



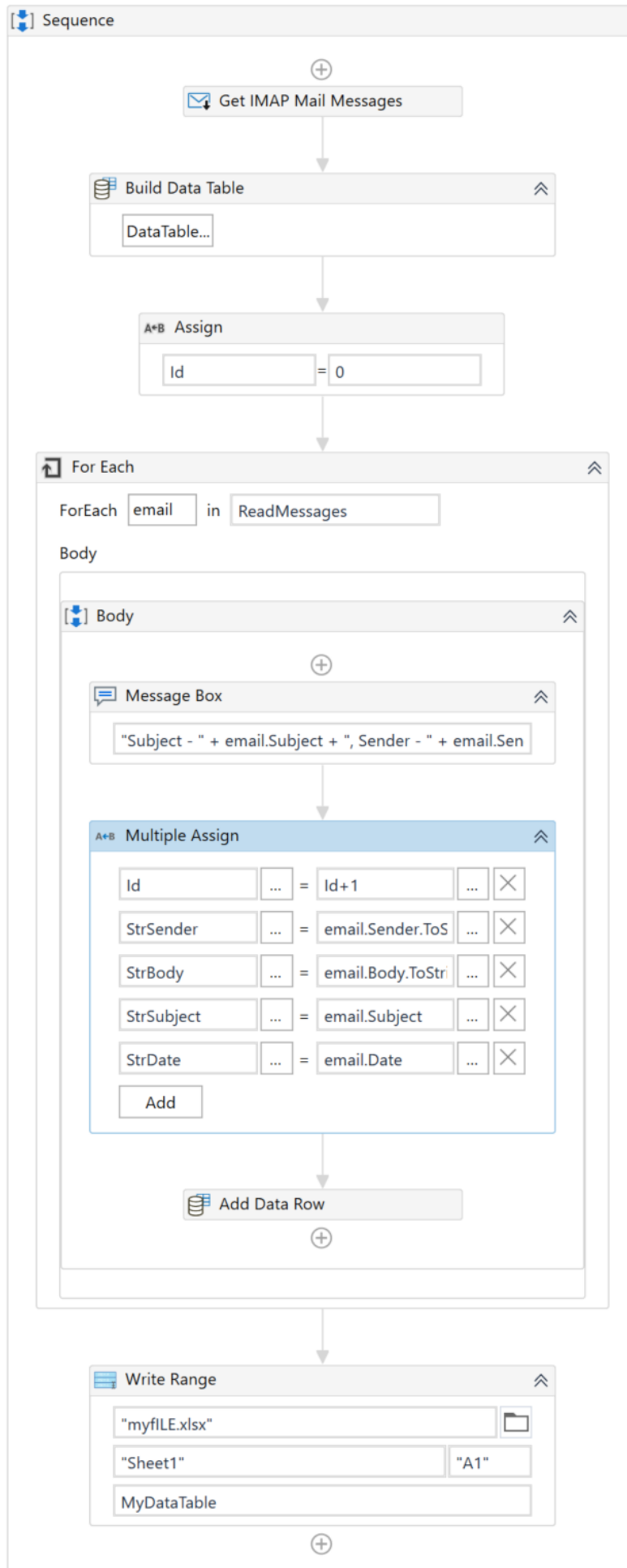
- Select the **Add Data Row** activity and in Properties pallet, enter the following information under Input
 - ArrayRow – {Id, StrSender, StrSubject, StrDate, StrBody}
 - DataTable - MyDataTable



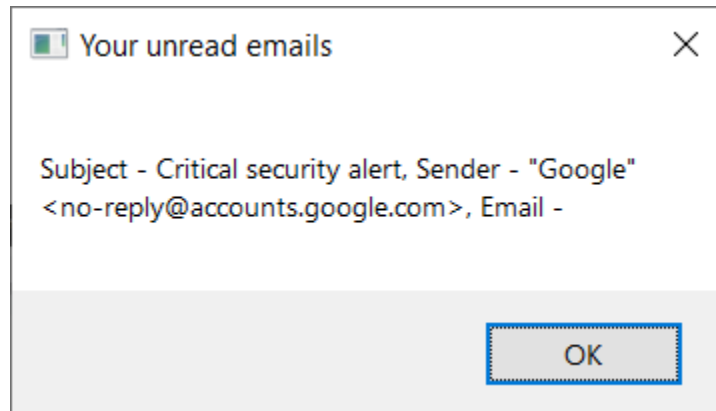
- Add **Write Range** activity under in Sequence next to For Eac and set the following properties
 - Specify your file name – “myFile.xlsx” or you can specify a fully qualified address to save the file in a folder of your choice
 - “Sheet1” and “A1”
 - Specify your data table - MyDataTable



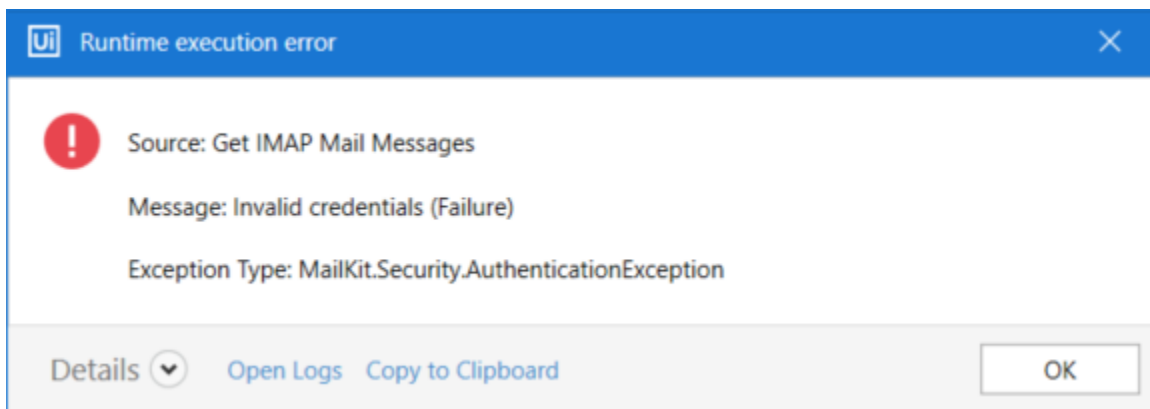
- The whole solution will look like the following illustration.



- Running the project
 - To test your project, select **Run** from **Debug Files** from your **Ribbon** tabs.



Note: If you find an error similar to the illustrated below > check Appendix 1.



Optional exercise.

The messages part of emails is not clearly shown, so you could read documentations from the UiPath forum and other online sources and improve the display.

- <https://forum.uipath.com/>
- <https://docs.uipath.com/user/UiPath>
- <https://www.youtube.com/user/UiPath>
- [Other sources.](#)


References

www.docs.uipath.com

<https://docs.uipath.com/installation-and-upgrade/docs/studio-enabling-gmail-for-email-activities>


Appendix 1

- You can check the information posted in: <https://docs.uipath.com/installation-and-upgrade/docs/studio-enabling-gmail-for-email-activities>.
- Or
- Check your email and approve if Gmail prompts you to do so.


 **Critical security alert**

5 minutes ago

A suspicious app was blocked from accessing your account

 ~~work~~@gmail.com

Google prevented someone from signing in to your account using a non-Google app. If this wasn't you, they know your password and you should change it immediately.

**Unknown device**
Sweden

Were you recently prevented from signing in to your Google Account?

☐ **No, secure account**

☒ **Yes, it was me**

- 👤 Home
- 📄 Personal info
- 🔒 Data & privacy
- 🔒 Security**
- 👥 People & sharing
- 💳 Payments & subscriptions
- ℹ️ About

Security

Settings and recommendations to help you keep your account secure

You have security recommendations

Recommended actions found in the Security Checkup



[Protect your account](#)

Recent security activity

Access to less secure apps was turned on	1:34 AM	>
Suspicious attempt to sign in from a less secure app	1:10 AM · Sweden	>
New sign-in on Windows	Oct 26 · Sweden	>

← Less secure app access

Some apps and devices use less secure sign-in technology, which makes your account vulnerable. You can turn off access for these apps, which we recommend, or turn it on if you want to use them despite the risks. Google will automatically turn this setting OFF if it's not being used. [Learn more](#)

Allow less secure apps: ON

