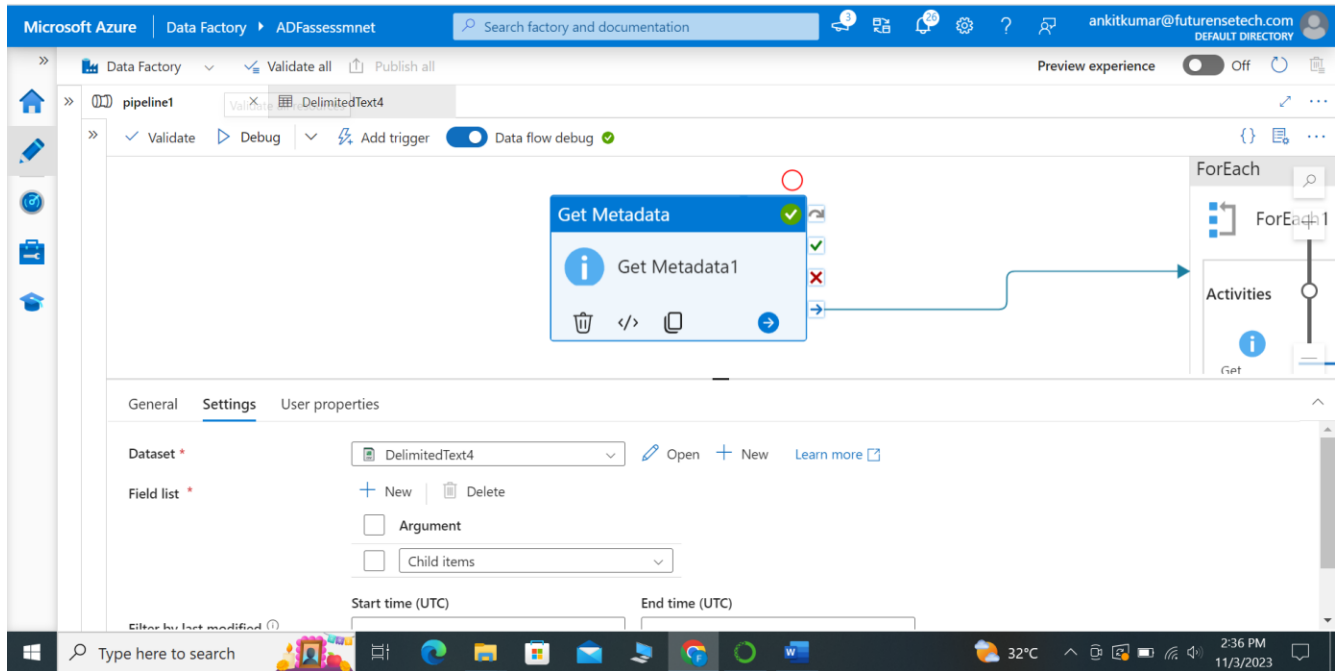
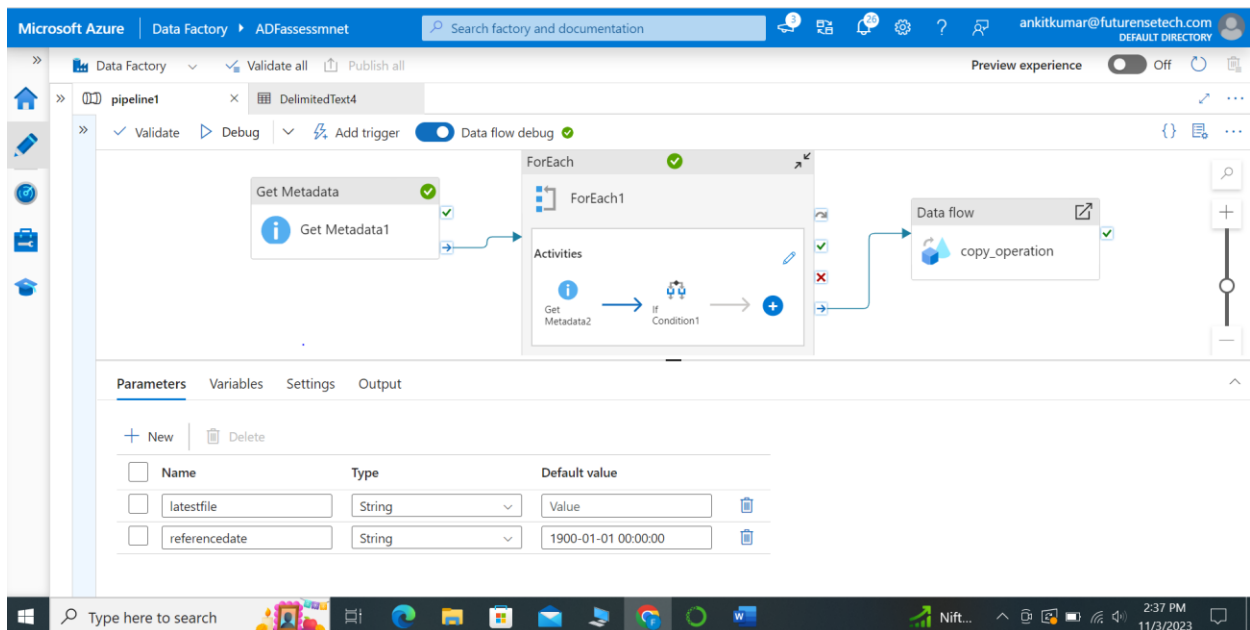


## Incremental Loading Data Pipeline

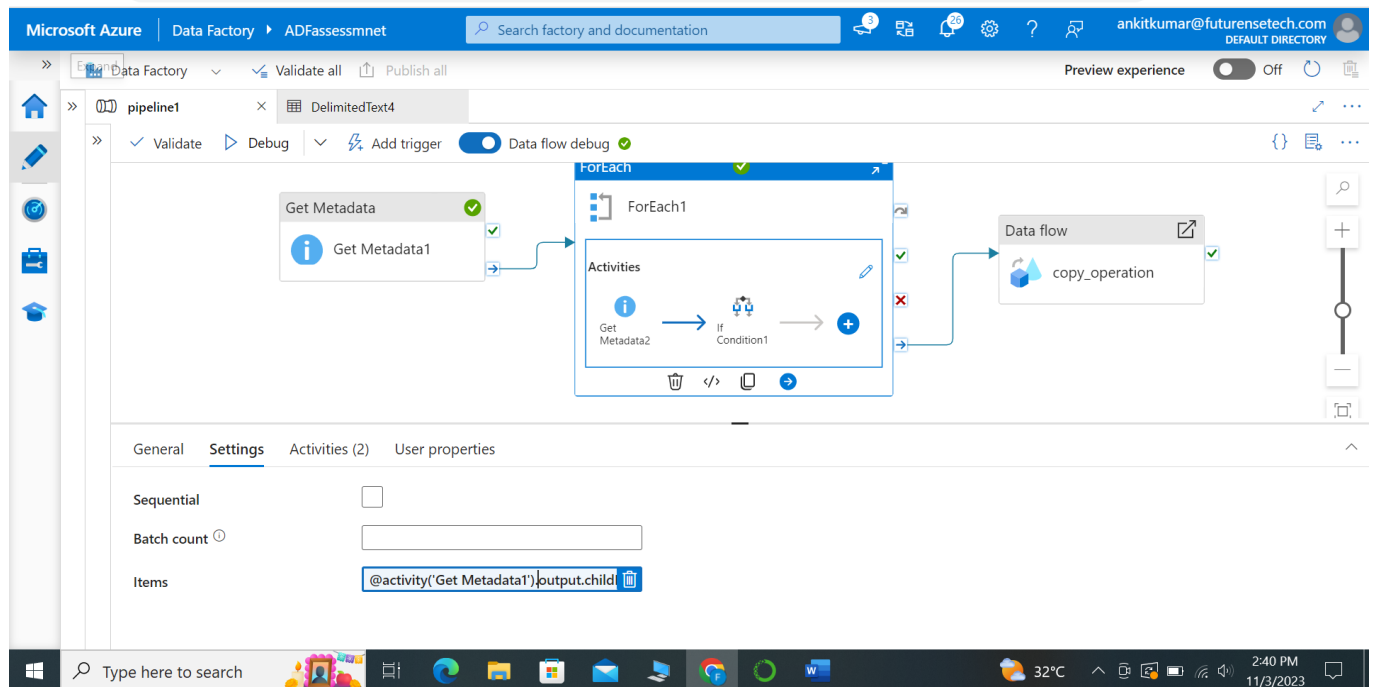
- 1) Getting Metadata from the source file (looking for child item in them)



- 2) Setting up two parameters in the pipeline
  - a) Latestfile (name of the file to be copied)
  - b) Referencedate (contain date of lastly modified date)



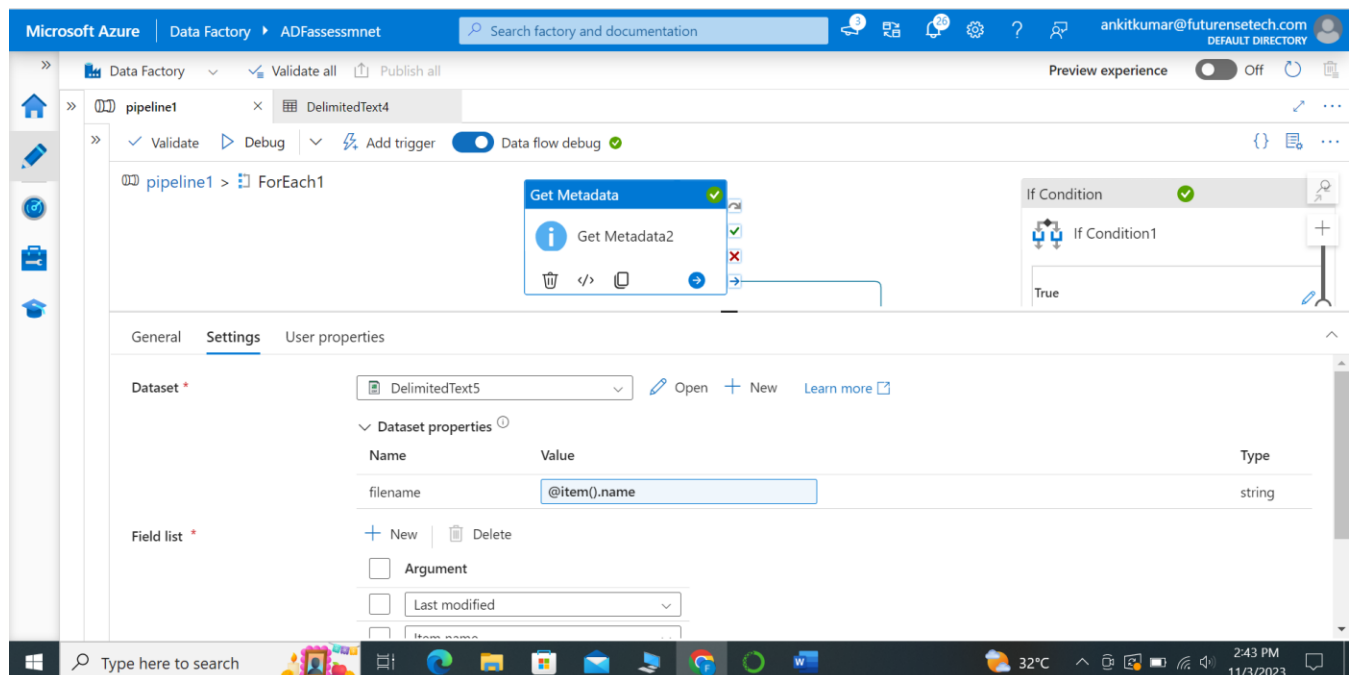
Using for each loop to extract every name from the child item one at a time then running them



Here I have passed `@activity('Get Metadata1').output.childItems`

3) Inside For each loop

Building a metadata activity to abstract the item name and last modified date form the sink



Inside for loop using if else statement to compare the last modified date  
If last modified date > reference date then perform dataflow

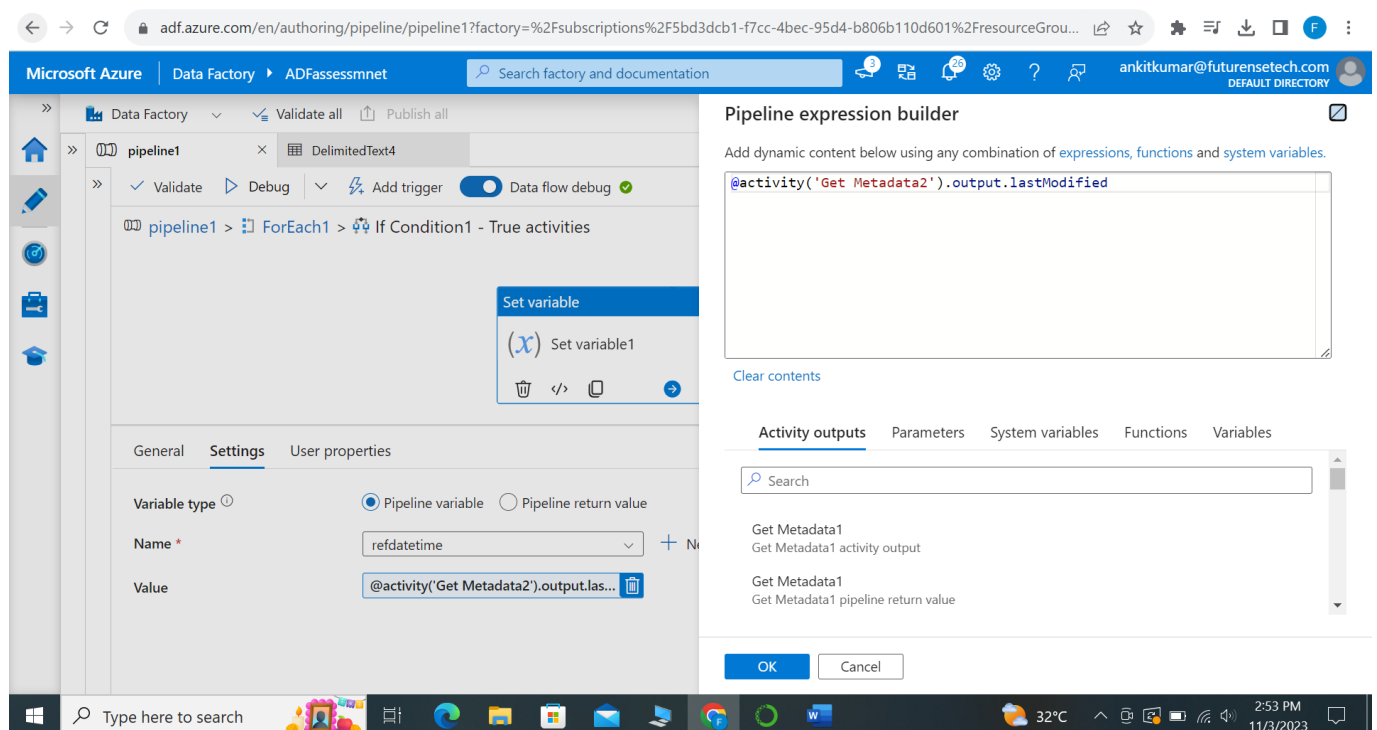
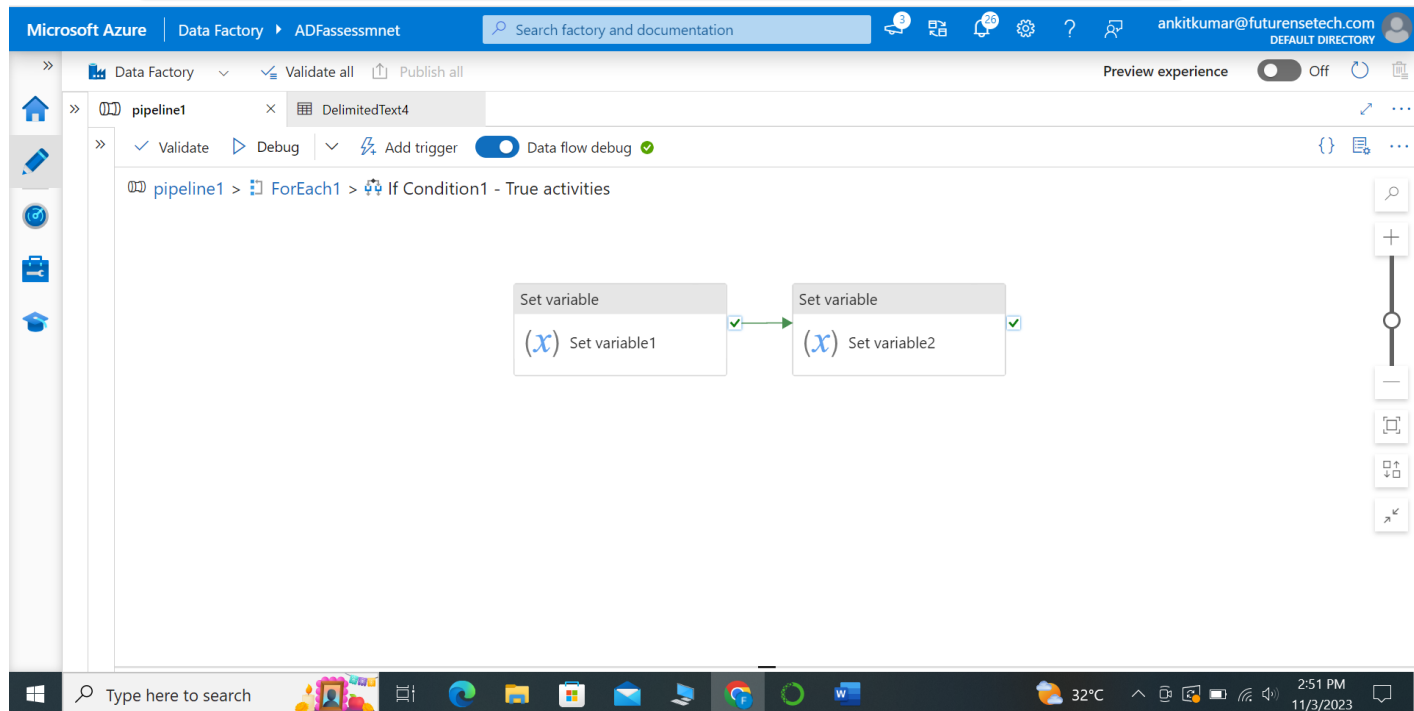
The screenshot shows the Microsoft Azure Data Factory pipeline editor. The pipeline is named 'pipeline1' and contains a 'ForEach1' loop. Inside the loop, there is an 'If Condition' activity. The 'If Condition' activity has two branches: 'True' and 'False'. The 'True' branch contains two 'Set variable' activities: 'Set variable1' and 'Set variable2'. The 'False' branch is empty. The 'If Condition' activity is connected to a 'Get Metadata' activity, which is connected to a 'Get Metadata2' activity. The 'Get Metadata2' activity is connected to the 'If Condition' activity. The 'If Condition' activity is also connected to a 'Set variable2' activity. The 'Set variable2' activity is connected to a 'Data flow' activity.

The screenshot shows the Microsoft Azure Data Factory pipeline editor with the 'Pipeline expression builder' dialog box open. The dialog box contains the following text:

```
@greater(activity('Get Metadata2').output.lastModified, variables('refdatetime'))
```

The dialog box also has a 'Clear contents' button and a 'ForEach iterator' section. The 'ForEach iterator' section shows the 'ForEach1' iterator with the 'Current item' variable.

If the condition matches then setting the new filename and last modified name



Now passing this variable to the Data flow by creating parameter inside Dataflow

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Validate all | Publish all

Preview experience | Off

pipeline1

Validate | Debug | Add trigger | Data flow debug

Data flow

copy\_operation

General | Settings | Parameters | User properties

Data flow \*

Dataflow\_Error

Open | New

Dataflow parameters

Name	Value	Type
sourcename	@variables('latestfile')	string

SinkBad parameters

Name	Value	Type
sourcename	@variables('latestfile')	string

Type here to search

32°C

2:55 PM 11/3/2023

Created sourcename and assign value `@variables('latestfile')`

And from same source we have built a connection and passed the “latestfile” name and runned the pipeline so only that file is being copied which is not present in sink or lastly modified

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Validate all | Publish all

Preview experience | Off

pipeline1

Validate | Data flow debug | Debug Settings

Dataflow

Import data from DelimitedText1

alterRow1

Add expressions to alter rows

FalseDate

Conditionally distributing the data in Date groups, based on

SinkBad

Export data to DelimitedText1

GoodDate

Conditionally distributing the data in Date groups, based on

SinkGood

Export data to DelimitedText1

Parameters | Settings

New

Type here to search

32°C

2:57 PM 11/3/2023

Executing the pipeline or we can use the trigger mechanism to operate

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pipeline1 - Activity runs

Refresh Update pipeline List Gantt

This is a recent debug run. The local pipeline configuration is shown.

Get Metadata

ForEach

ForEach1

Activities

Data flow

copy\_operation

Set variable2	✓ Succeeded	Set variable	11/3/2023, 2:59:49 PM	Less than 1s	
Set variable1	✓ Succeeded	Set variable	11/3/2023, 2:59:49 PM	Less than 1s	
Set variable1	✓ Succeeded	Set variable	11/3/2023, 2:59:49 PM	Less than 1s	
If Condition1	✓ Succeeded	If Condition	11/3/2023, 2:59:49 PM	2s	
If Condition1	✓ Succeeded	If Condition	11/3/2023, 2:59:49 PM	2s	
Get Metadata2	✓ Succeeded	Get Metadata	11/3/2023, 2:59:45 PM	3s	AutoResolveIntegration
Get Metadata2	✓ Succeeded	Get Metadata	11/3/2023, 2:59:45 PM	3s	AutoResolveIntegration
ForEach1	✓ Succeeded	ForEach	11/3/2023, 2:59:44 PM	9s	
Get Metadata1	✓ Succeeded	Get Metadata	11/3/2023, 2:59:41 PM	2s	AutoResolveIntegration

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pipeline1 - Activity runs

Refresh Update pipeline List Gantt

This is a recent debug run. The local pipeline configuration is shown.

Get Metadata

ForEach

ForEach1

Activities

Data flow

copy\_operation

Showing 1 - 11 of 11 items

Activity name	Activity status	Activity type	Run start	Duration	Integration runtime	User
copy_operation	✓ Succeeded	Data flow	11/3/2023, 2:59:53 PM	1m 6s	debugpool-8Cores-Gei	
Set variable2	✓ Succeeded	Set variable	11/3/2023, 2:59:50 PM	Less than 1s		
Set variable2	✓ Succeeded	Set variable	11/3/2023, 2:59:49 PM	Less than 1s		
Set variable1	✓ Succeeded	Set variable	11/3/2023, 2:59:49 PM	Less than 1s		
Set variable1	✓ Succeeded	Set variable	11/3/2023, 2:59:49 PM	Less than 1s		
If Condition1	✓ Succeeded	If Condition	11/3/2023, 2:59:49 PM	2s		
If Condition1	✓ Succeeded	If Condition	11/3/2023, 2:59:40 PM	2s		

