



## Azure Data Factory Real Time Scenario Part - 31

Check Whether Particular Date is Working Day or Weekend

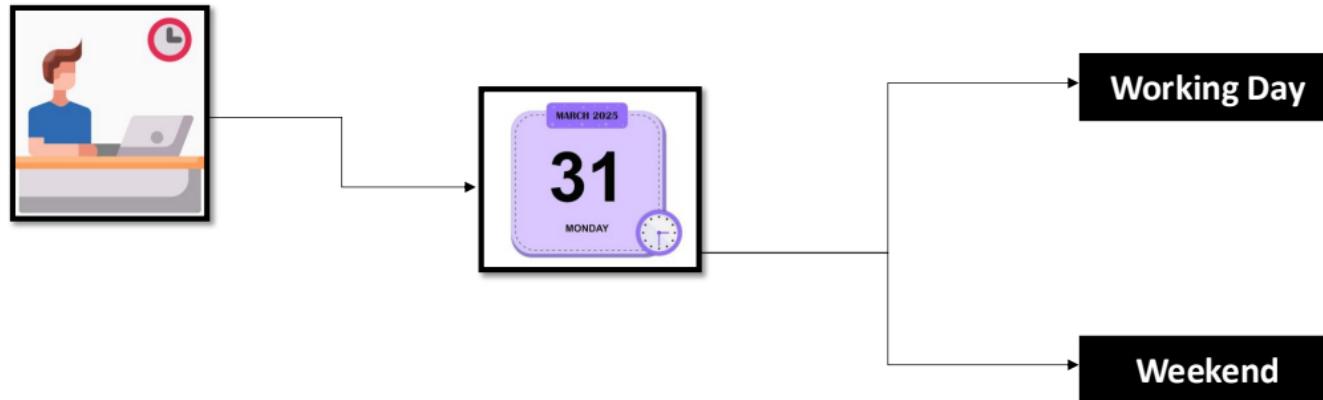
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Praveen Patel  
Azure Data Engineer

## Business Requirement

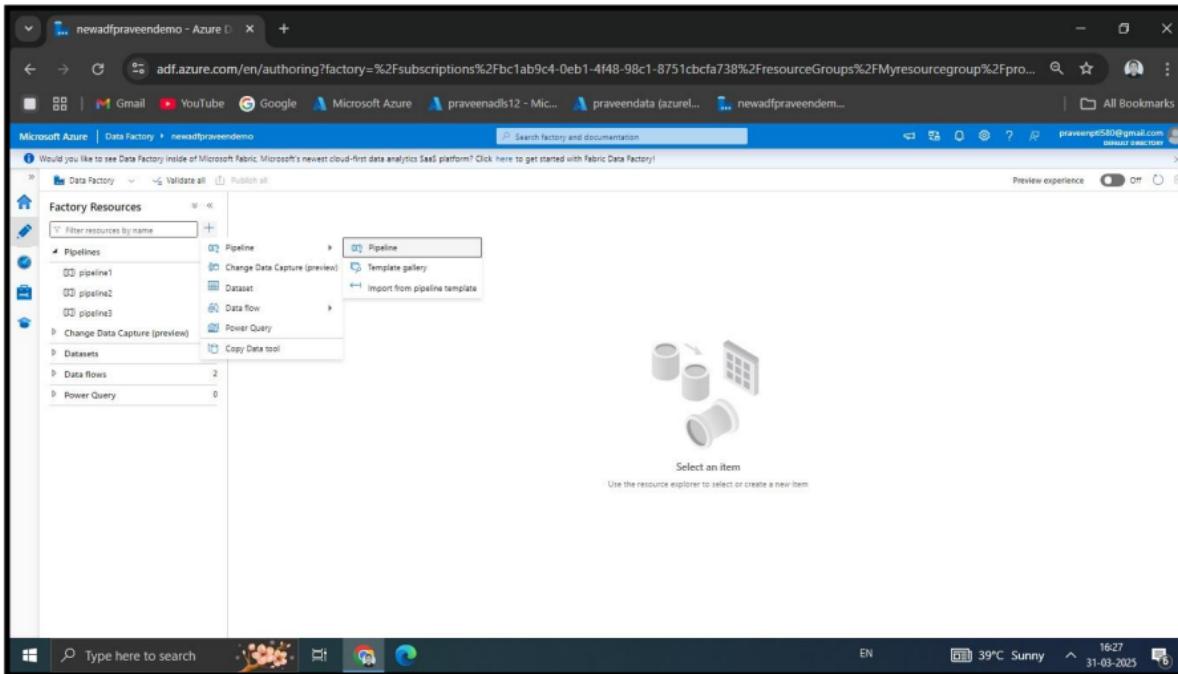
Suppose, You are an Azure Data Engineer at ABC company where you are having responsibility to build data pipeline. One day, A product manager comes to you to assign a business requirement to carry out, while assigning a business requirement he says you have to find out either working day or weekend based on passing parameter as any particular date by user.



# Practical Demonstration

## Step 1

Open Azure Data Factory then go to author tab click on '+' icon and create a new pipeline.



## Step 2

Go to parameters create a new parameter EnterDate to pass date dynamically.

The screenshot shows the Microsoft Azure Data Factory pipeline editor. On the left, the 'Factory Resources' sidebar lists 'Pipelines' containing 'pipeline1', 'pipeline2', 'pipeline3', and 'pipeline4'. The 'pipeline4' pipeline is selected. In the main workspace, under the 'Activities' section, there is a list of available activities: Move and transform, Synapse, Azure Data Explorer, Azure Function, Batch Service, Databricks, Data Lake Analytics, General, HDInsight, Iteration & conditionals, Machine Learning, and Power Query. Below this list, tabs for 'Parameters', 'Variables', 'Settings', and 'Output' are visible. The 'Parameters' tab is active, showing a table with one row. The table has columns for 'Name', 'Type', and 'Default value'. A new row is being added, with the 'Name' field set to 'EnterDate', the 'Type' field set to 'String', and the 'Default value' field empty. The 'Properties' panel on the right shows the pipeline's name as 'pipeline4' and its description as empty. The status bar at the bottom indicates the date as 31-03-2025, the time as 16:38, the temperature as 39°C, and the weather as Sunny.

## Step 3

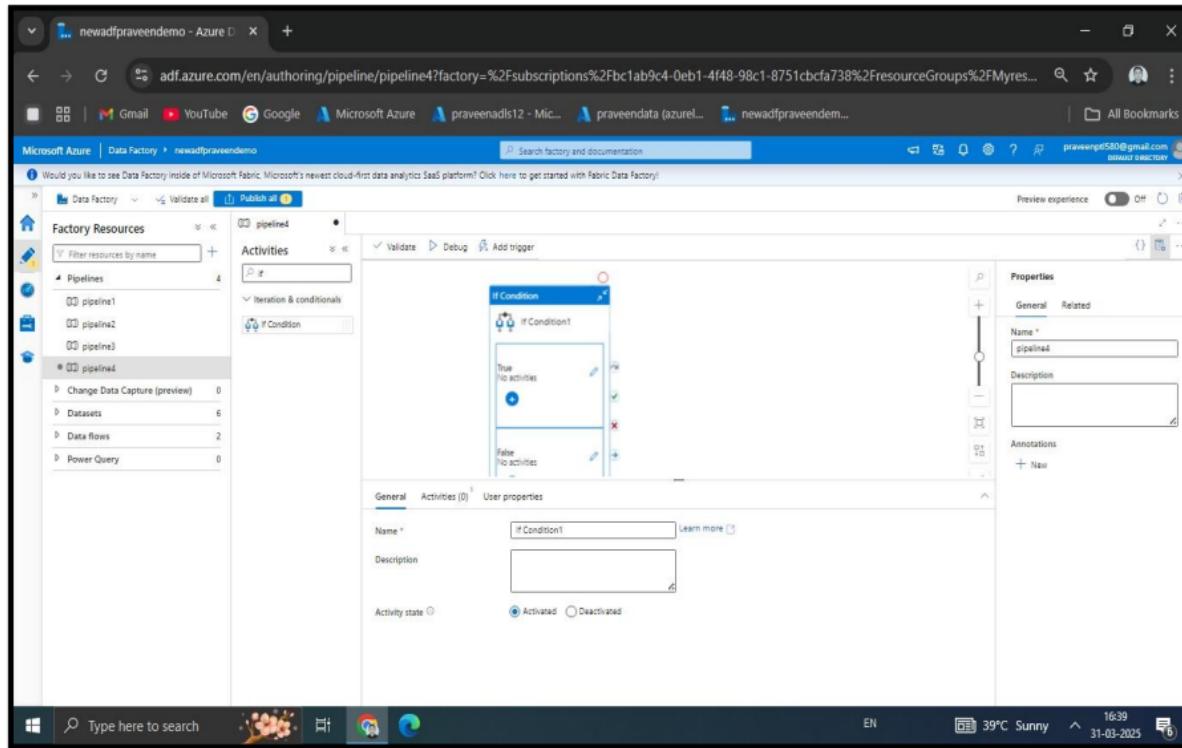
Next go to variables create a new variable WorkingDay and Weekend to use in set variable activity.

The screenshot shows the Microsoft Azure Data Factory pipeline editor. On the left, the 'Factory Resources' sidebar lists pipelines: pipeline1, pipeline2, pipeline3, and pipeline4 (selected). The main area displays the 'Activities' pane with various options like Move and transform, Synapse, Azure Data Explorer, etc. Below this is the 'Variables' tab of the pipeline editor. A table lists two variables: 'WorkingDay' (String type) and 'Weekend' (String type). The 'Properties' pane on the right shows the pipeline name as 'pipeline4'. The bottom taskbar includes icons for search, taskbar, and system status (EN, 39°C Sunny, 31-03-2025).

Name	Type	Default value
WorkingDay	String	Value
Weekend	String	Value

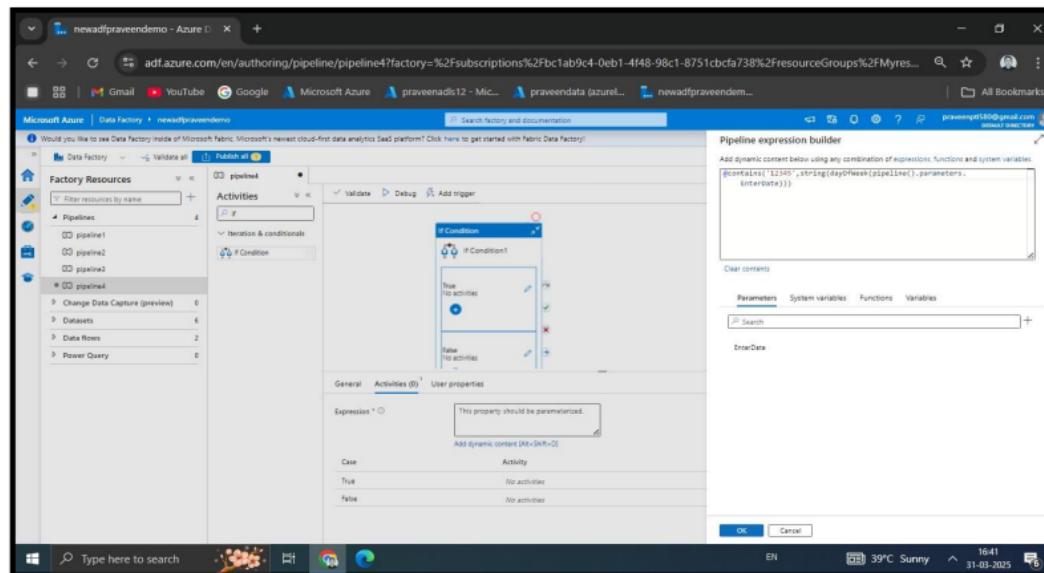
## Step 4

Go to activity search bar search if condition activity in activity search bar select,drag and drop it.



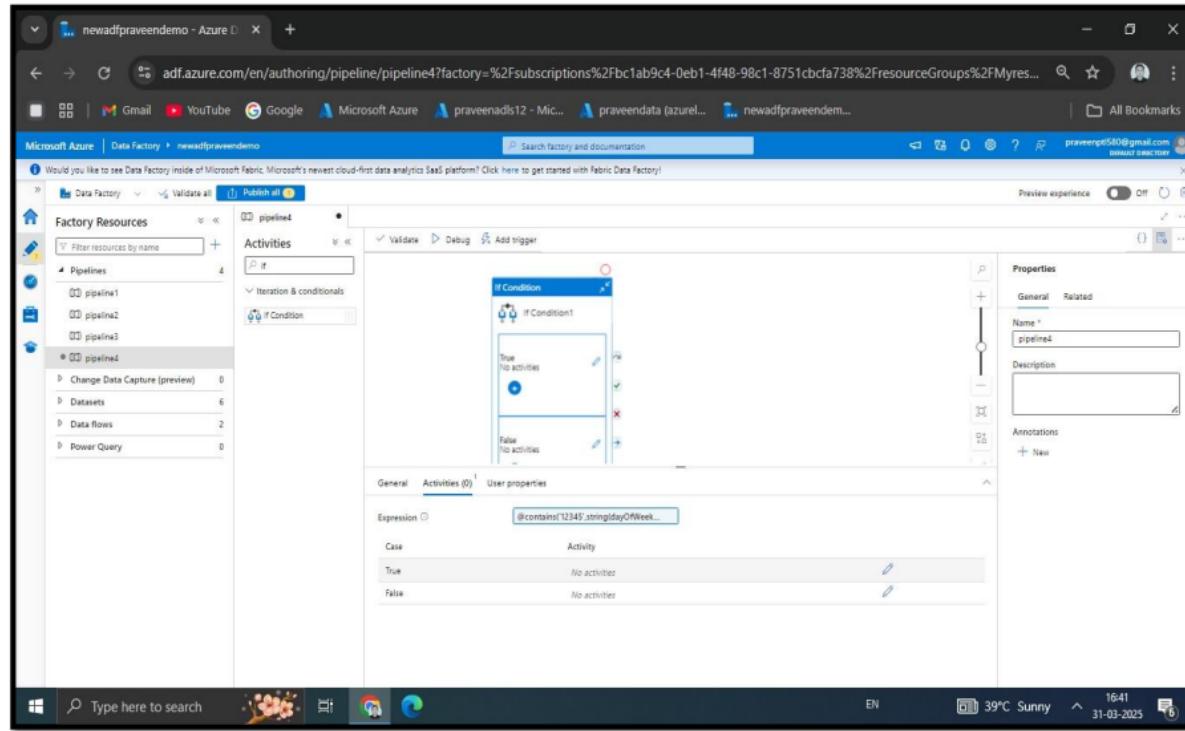
## Step 5

Go to if condition activities then go to expression add dynamic content provide the following expression in the expression builder it will ensure if particular date passed by user contains either 1 or 2 or 3 or 4 or 5 in that case if returns true otherwise false. Here, 1 represent monday, 2 represents tuesday like that 5 represents friday and 6 represents saturday. A dayofweek function takes date as parameter and returns a day in the form of 0,1,2,3,4,5.



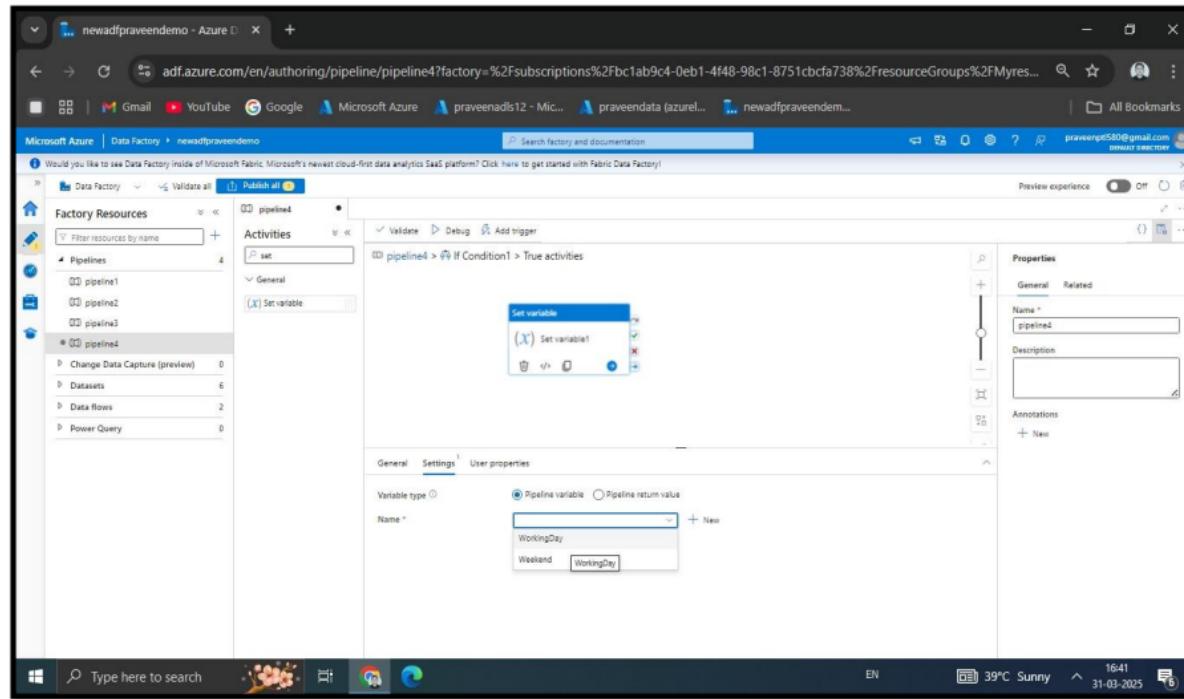
## Step 6

Next click on true case pencil to add set variable activity.



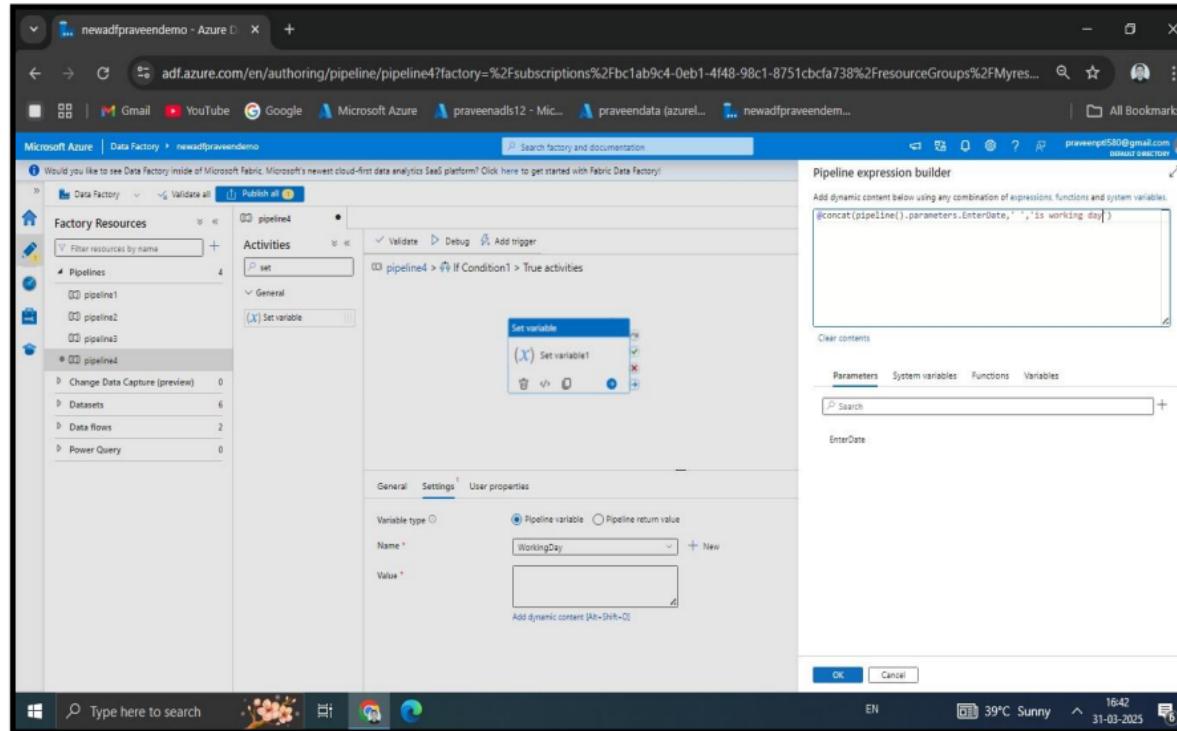
## Step 7

Go to activity search bar search set variable activity in activity search bar select, drag and drop it next go to settings select variable WorkingDay.



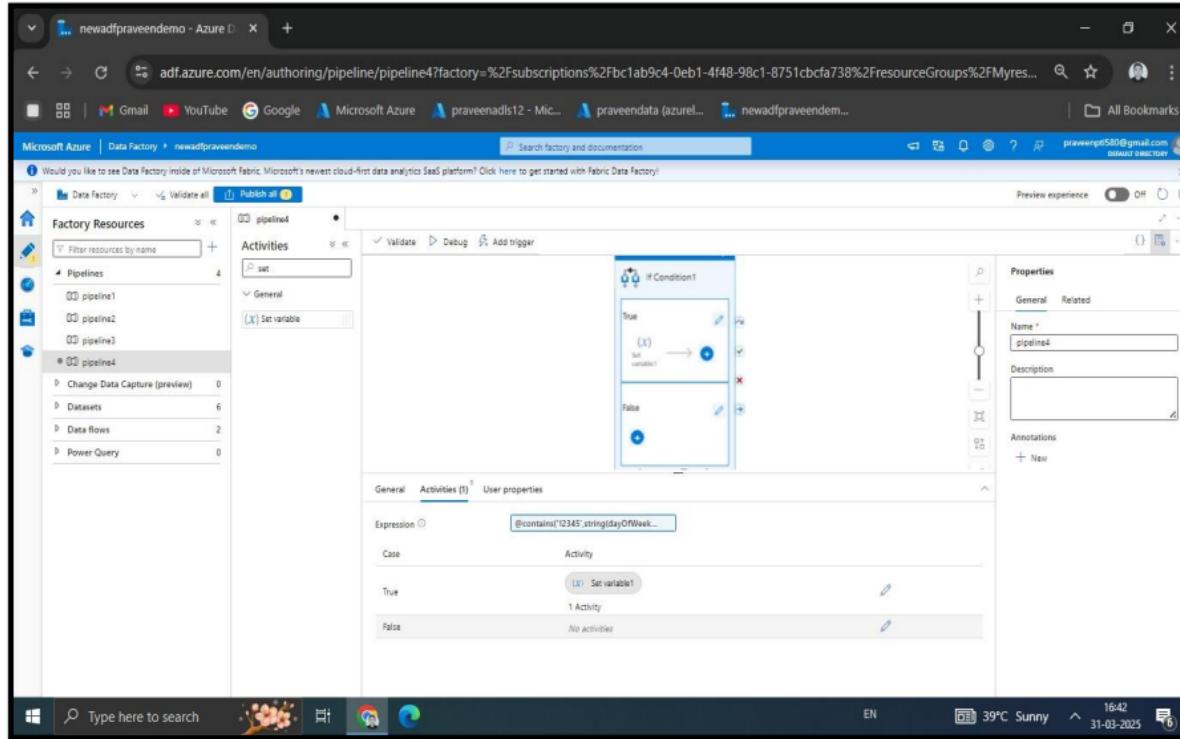
## Step 8

Next go to value add dynamic content provide the following expression in the expression builder.



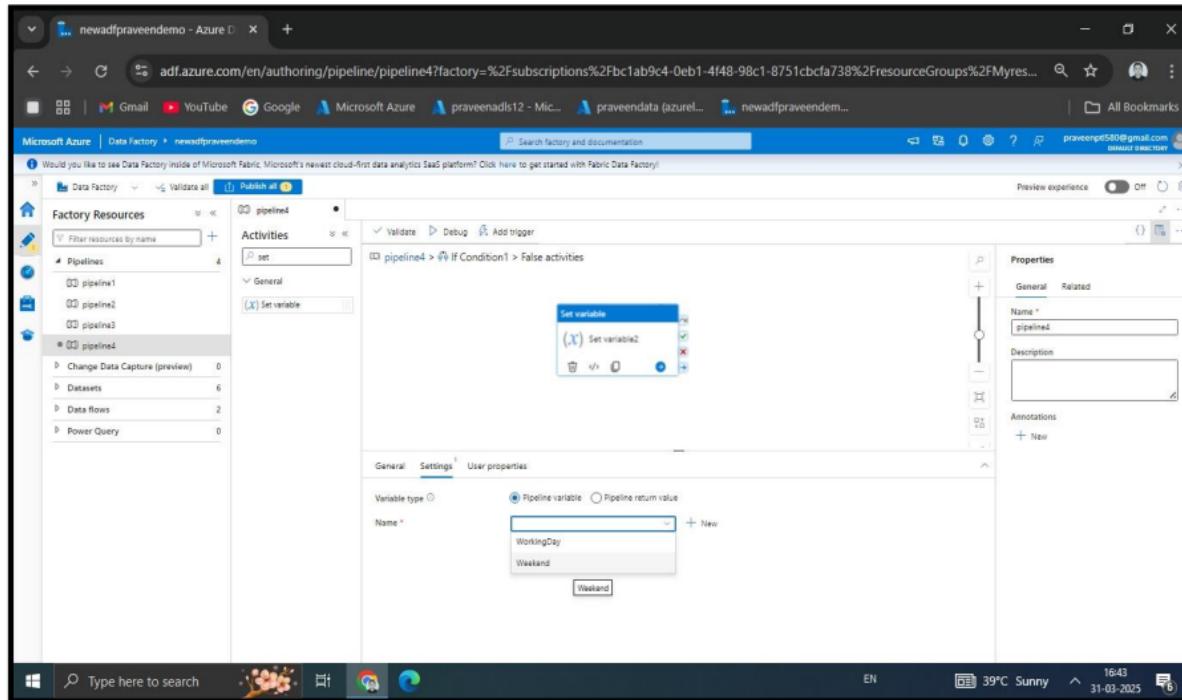
## Step 9

Next click on false case pencil to add set variable activity.



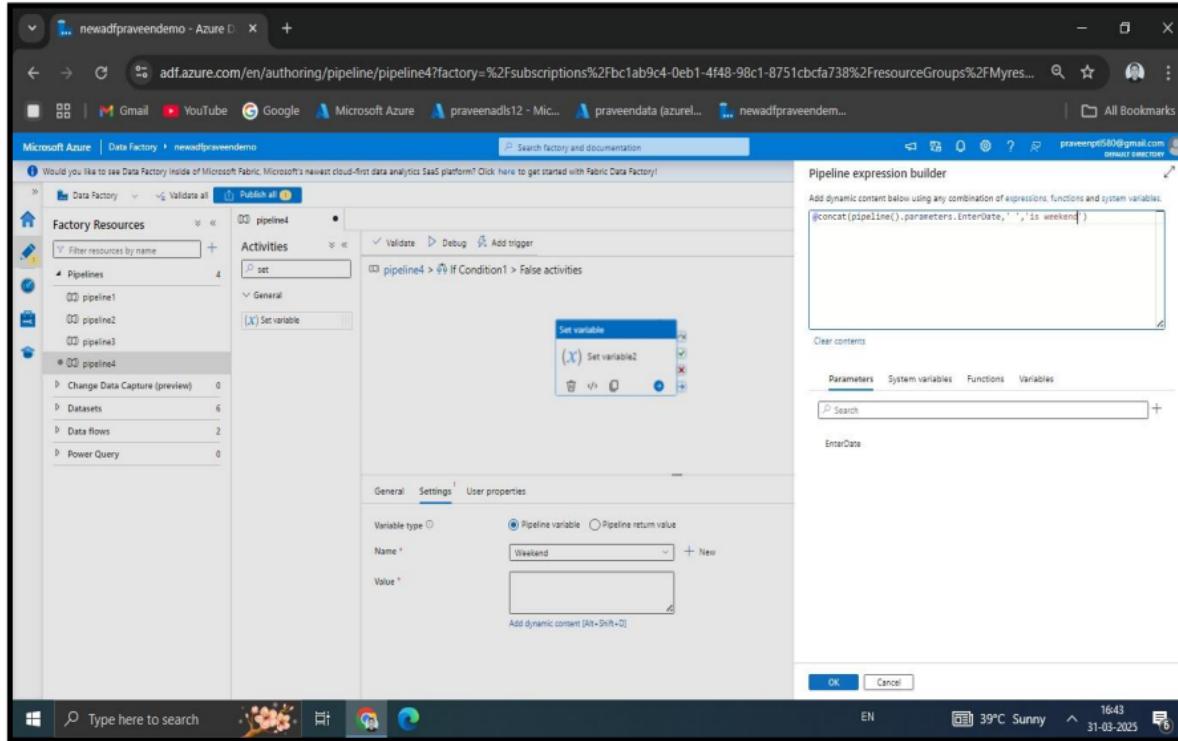
## Step 10

Go to activity search bar search set variable activity in activity search bar select, drag and drop it next go to settings select variable Weekend.



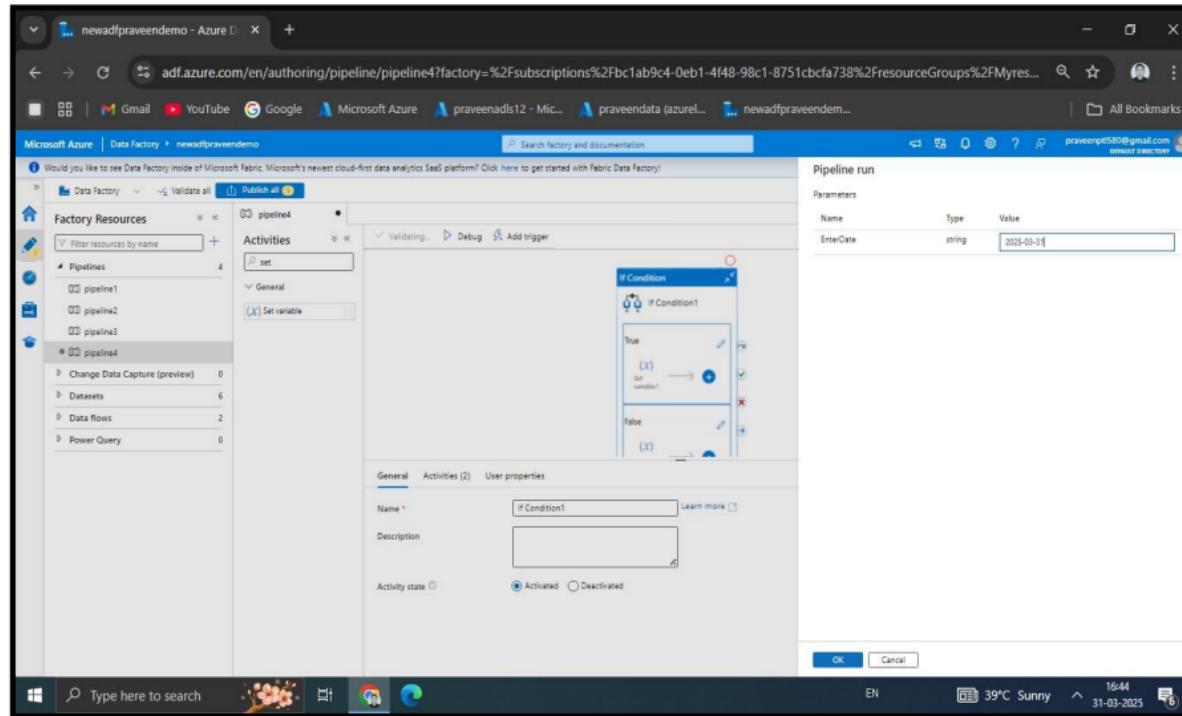
## Step 11

Next go to value add dynamic content provide the following expression in the expression builder.



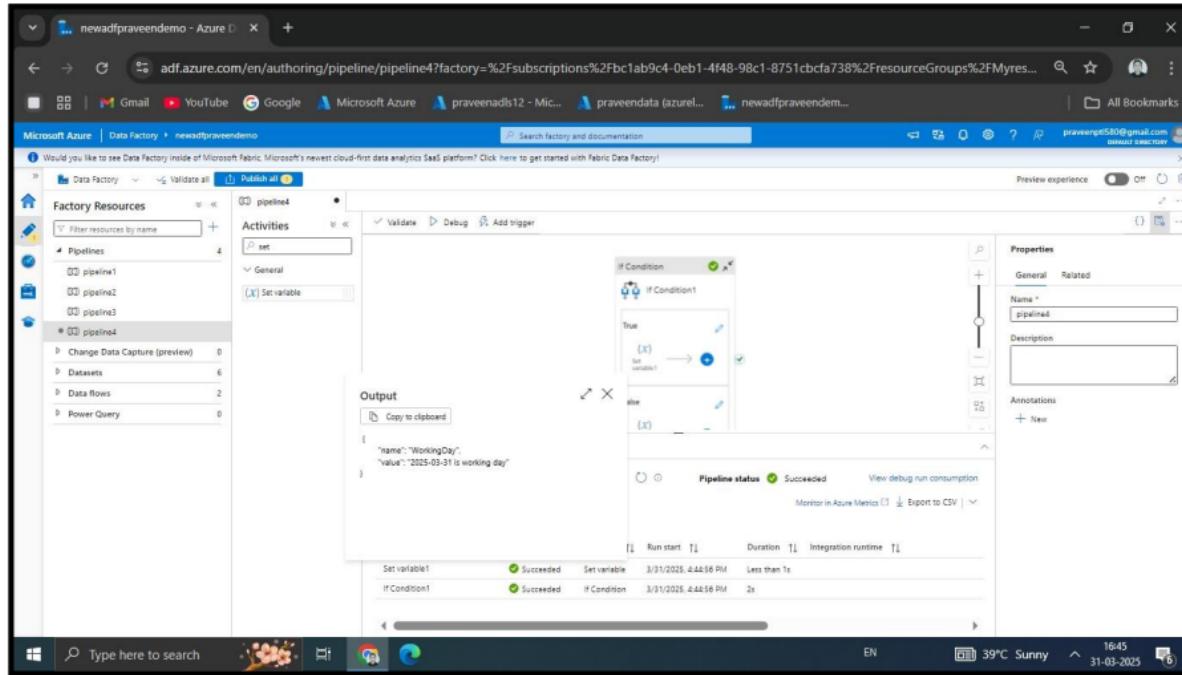
## Step 12

Now execute pipeline using debug mode provide date as of your choice i entered today's date with format yyyy-MM-dd to check whether it is working day or weekend.



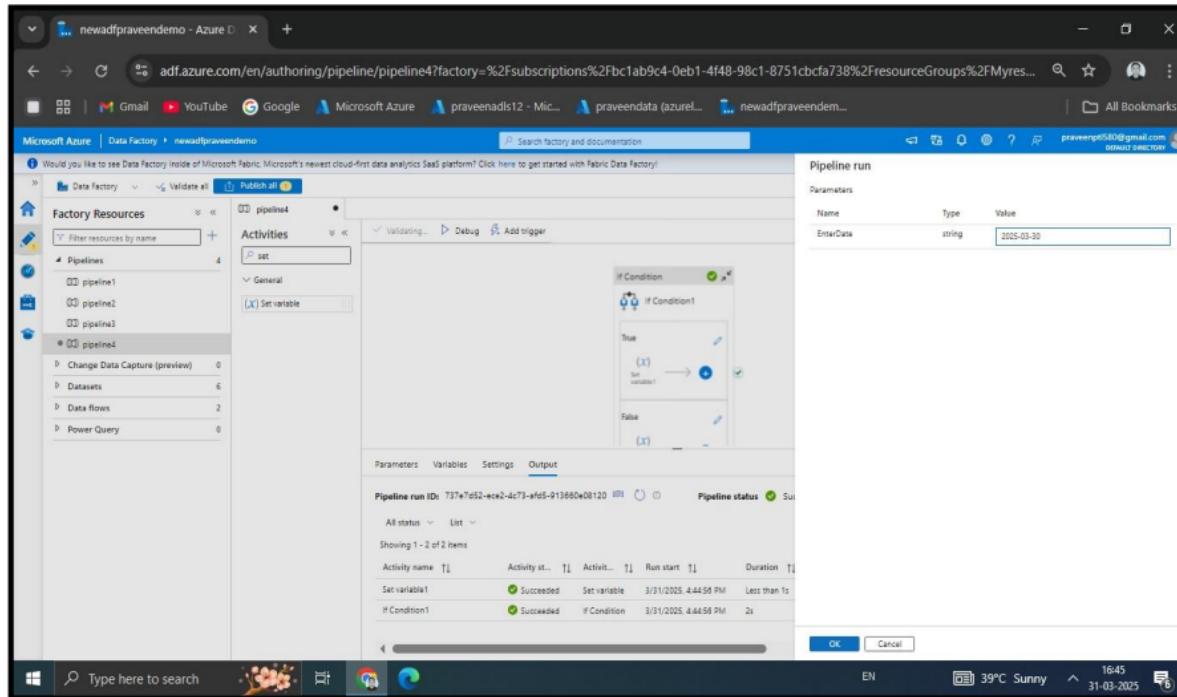
## Step 13

After pipeline is executed successfully go to set variable output icon you will be able to see today is working day.



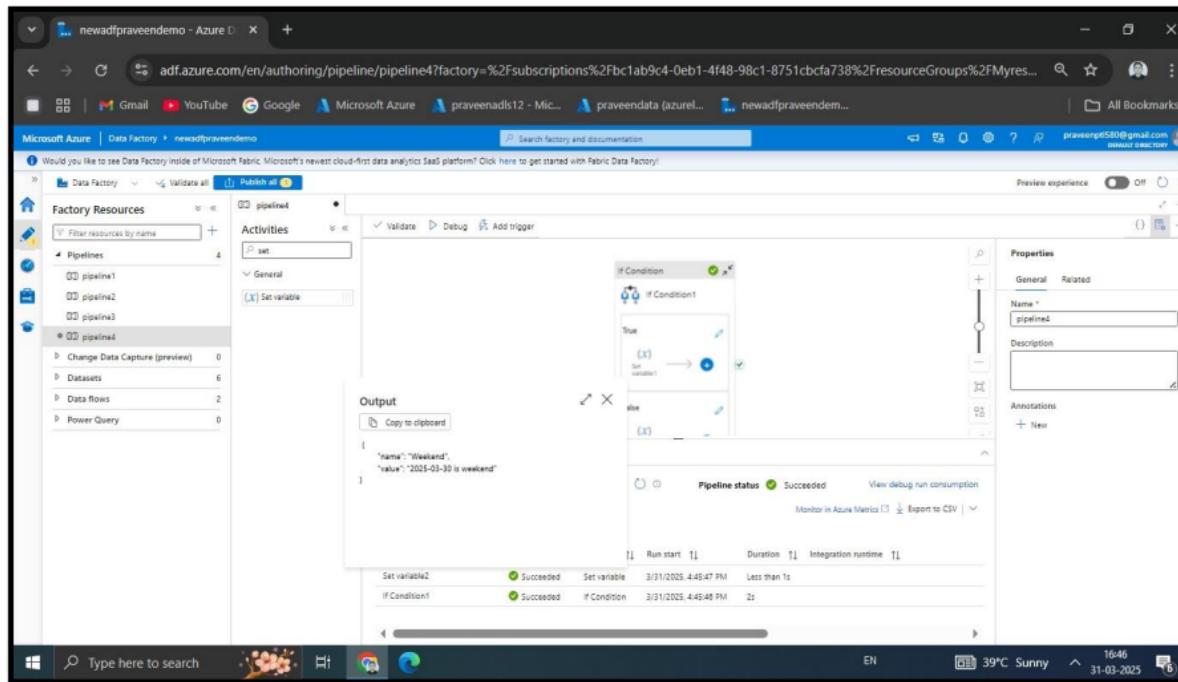
## Step 14

Once again i executed pipeline using debug mode and entered different date to check whether is weekday or weekend.



## Step 15

After pipeline execution when I went to set variable output icon i was able to see it was weekend on 30th march 2025.





**Praveen Patel**  
**Azure Data Engineer**

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