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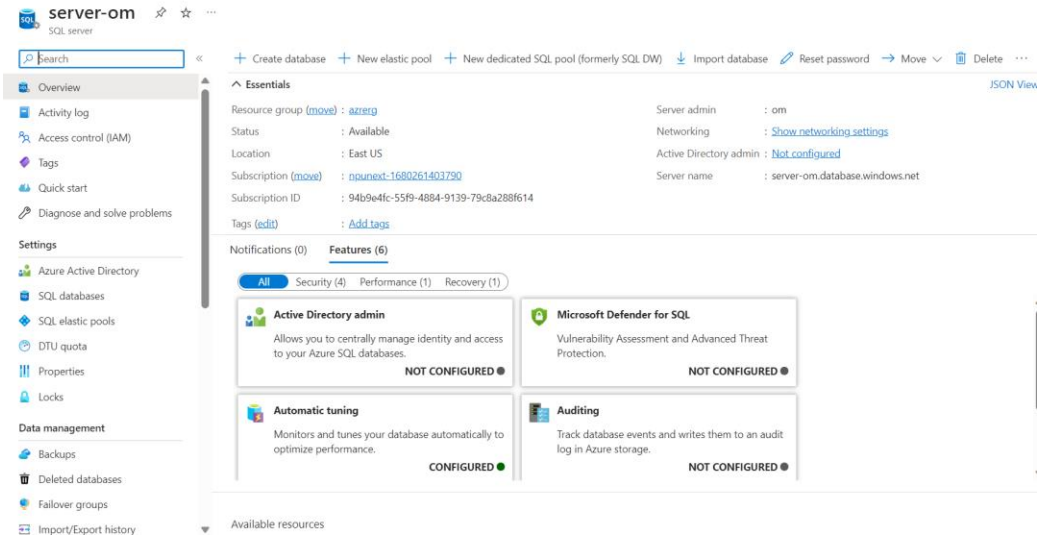
Employee Code: 655127

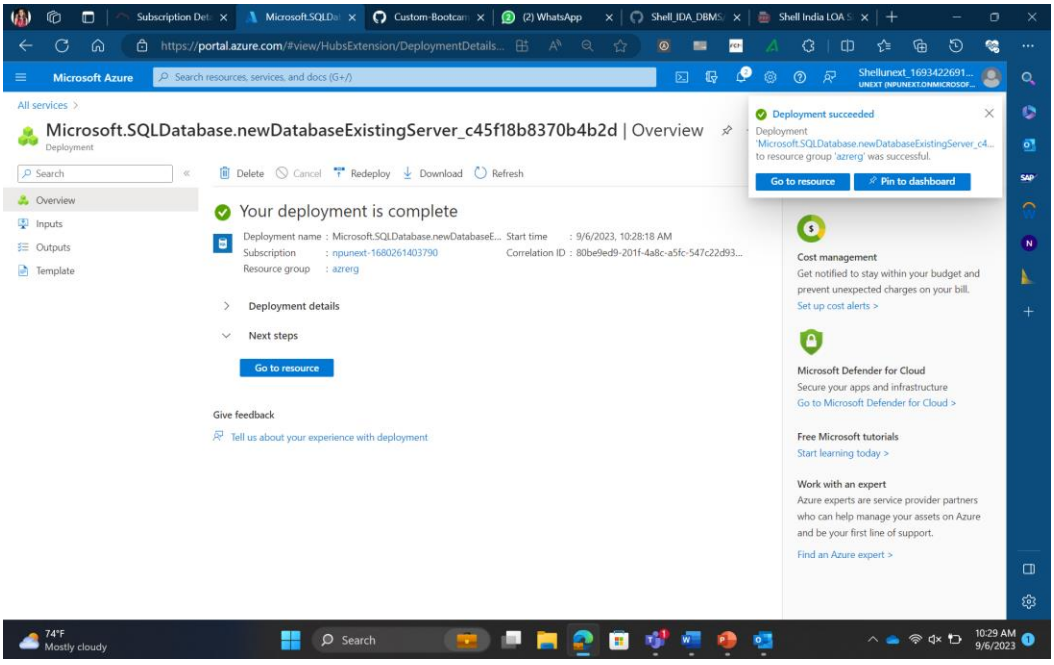
Day 7: Azure Data Factory

Exercise 1: Hands on

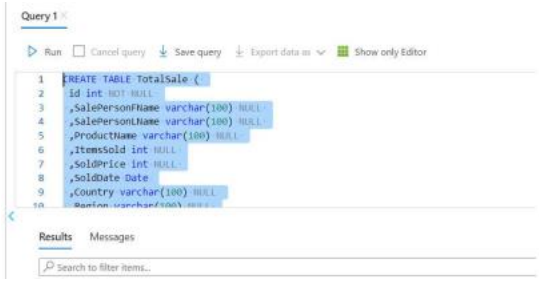
1. **Creating SQL Server**

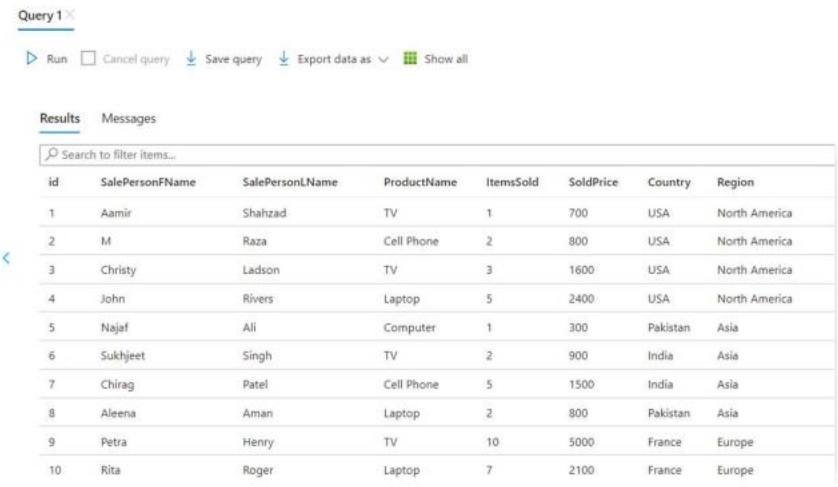


2. **Creating SQL Database**



Open query editor and add the given query

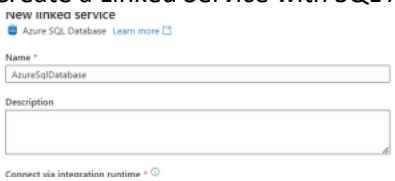




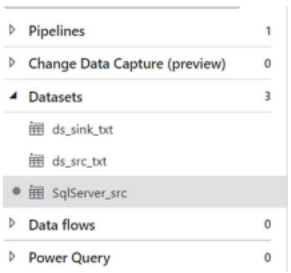
id	SalePersonFName	SalePersonLName	ProductName	ItemsSold	SoldPrice	Country	Region
1	Aamir	Shahzad	TV	1	700	USA	North America
2	M	Raza	Cell Phone	2	800	USA	North America
3	Christy	Ladson	TV	3	1600	USA	North America
4	John	Rivers	Laptop	5	2400	USA	North America
5	Najaf	Ali	Computer	1	300	Pakistan	Asia
6	Sukhjeet	Singh	TV	2	900	India	Asia
7	Chirag	Patel	Cell Phone	5	1500	India	Asia
8	Aleena	Aman	Laptop	2	800	Pakistan	Asia
9	Petra	Henry	TV	10	5000	France	Europe
10	Rita	Roger	Laptop	7	2100	France	Europe

3. Linked Services

Create a Linked Service with SQL Azure Database



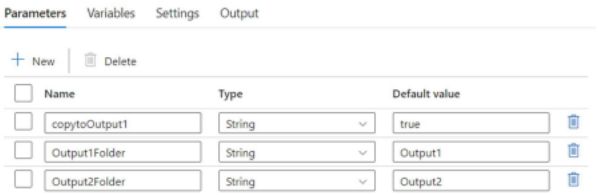
Creating Dataset



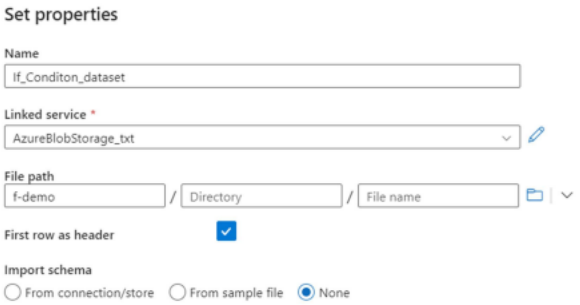
4. If Condition Activity

Create a Pipeline

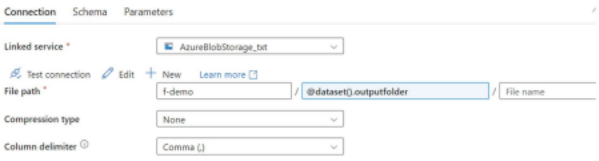
Add the following Parameters



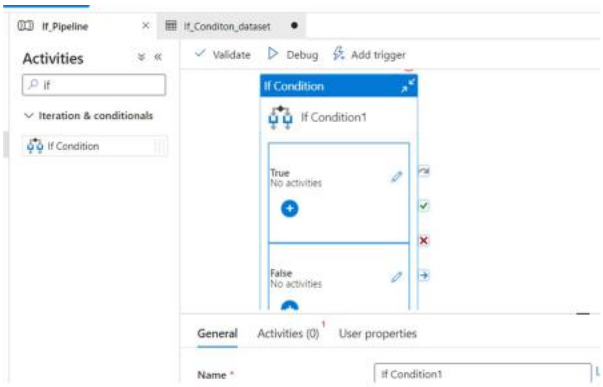
Create a dataset for the destination

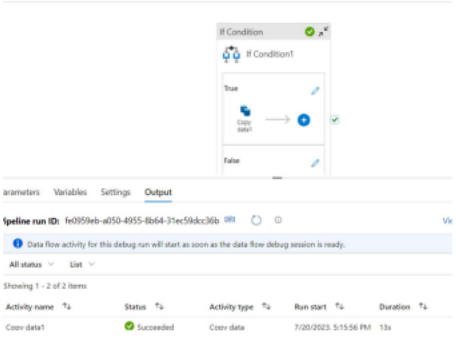


Add the following Parameters

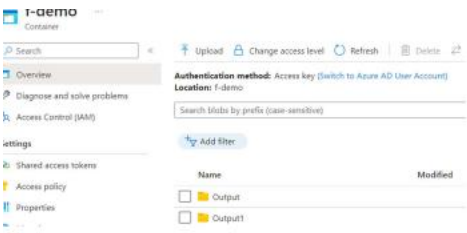


Go to pipeline and drag the condition



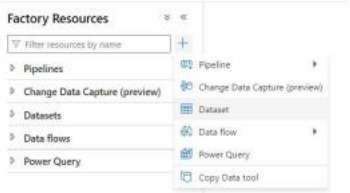


The following shows the output file created

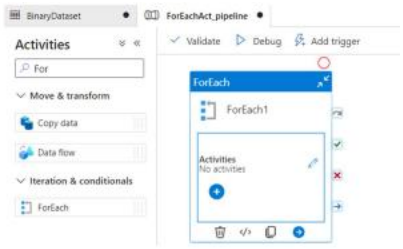


5. **For Each Activity**

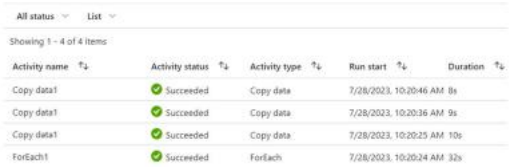
Creating Dataset



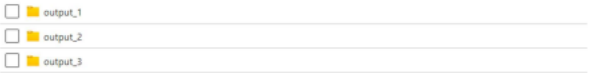
Drag and drog a for each pipeline



Add the pipeline parameters

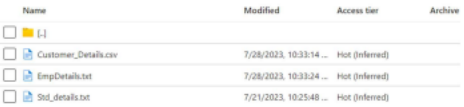


Upon going to Destination, folders can be seen

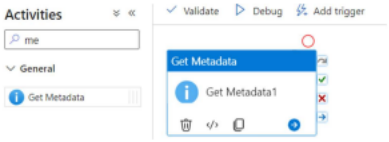


6. Filter Activity

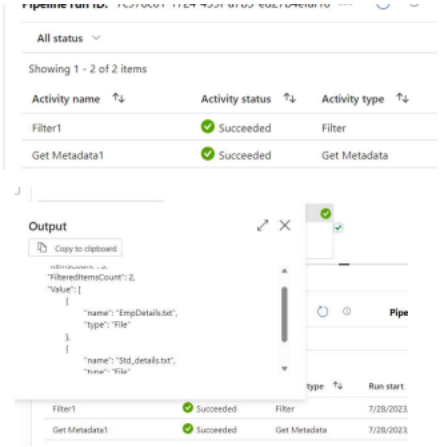
In the case study scenario, we have 2 text files and 1 CSV files
We intend to get the txt file



Create a pipeline hand drag and drop “Get Metadata”

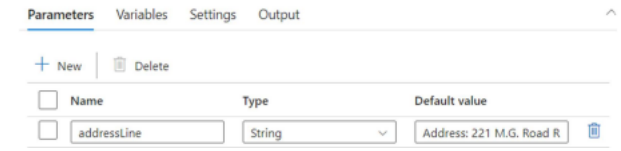


Add the filter activity and validate

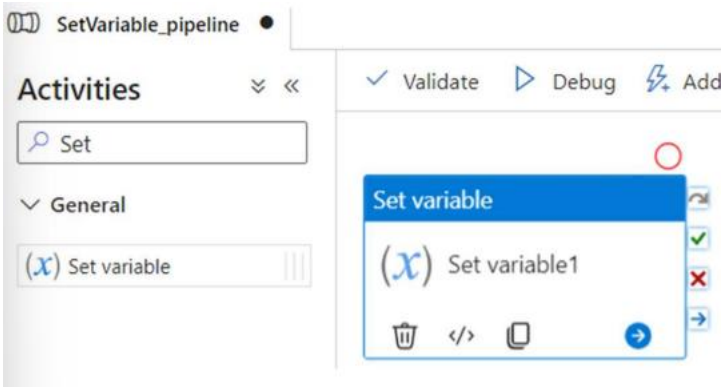


7. Set Variable Acttivity

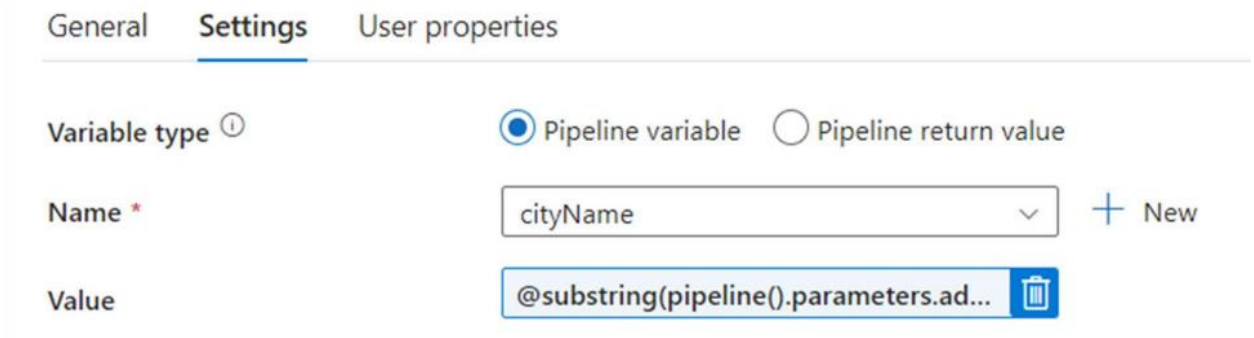
Create a pipeline and add the folowing parameters



Drag and Drop the Set Variable



Add the following expression

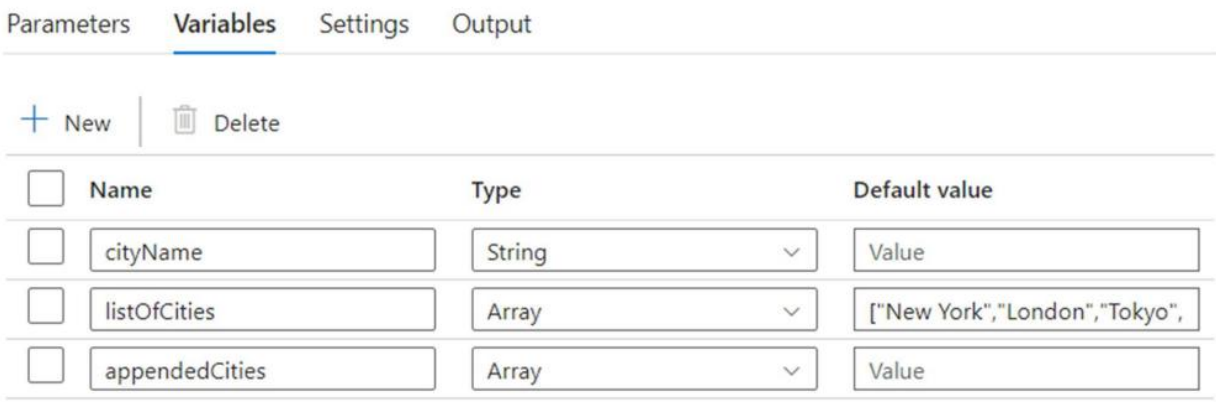


Check the output tab

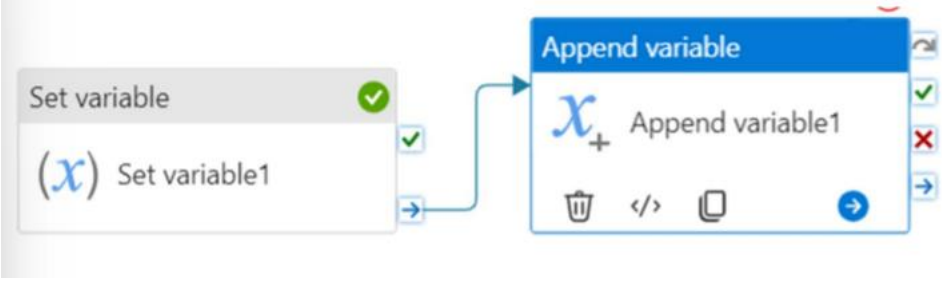

```
{
    "name": "cityName",
    "value": "Kolkata"
}
```


8. Exercise: Append Variable

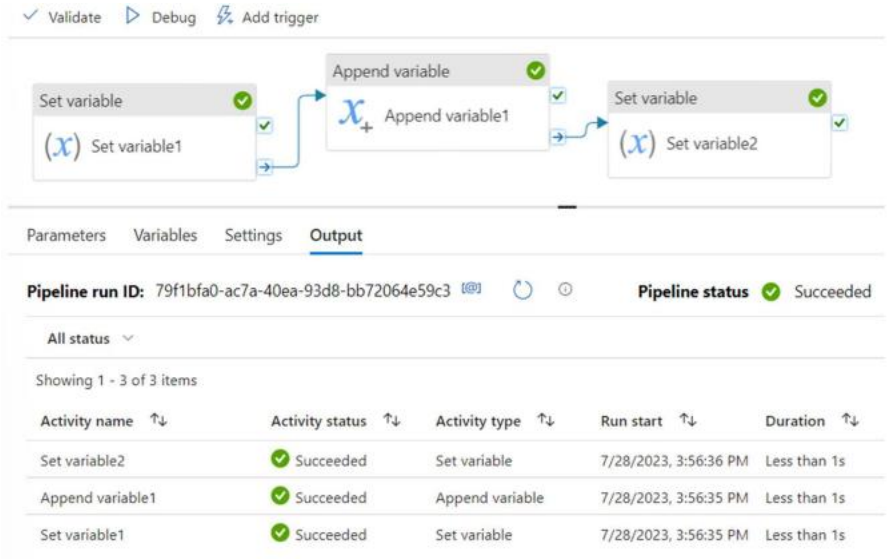
In the set variable pipeline, add two more variables



Drag and drop append variable acticity



Pipeline executed successfully

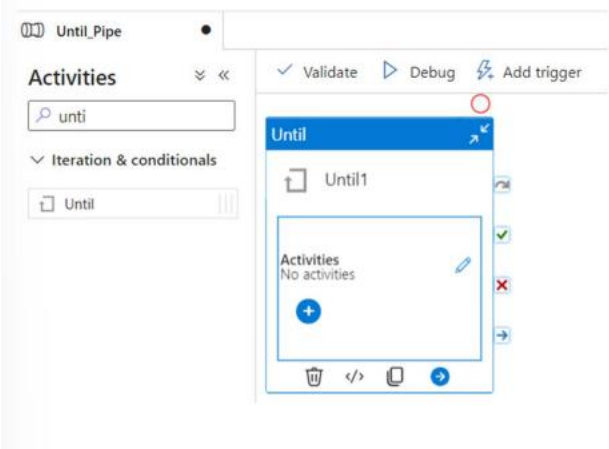


Output tab

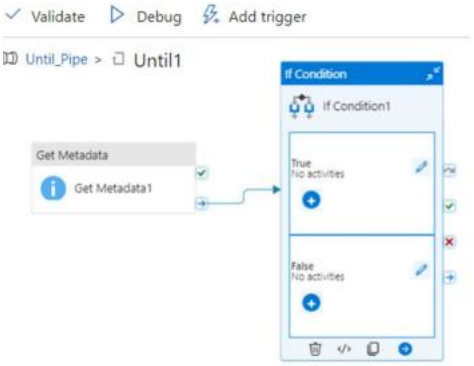
```
{
    "name": "appendedCities",
    "value": [
        "New York",
        "London",
        "Tokyo",
        "Singapore City",
        "Kolkata"
    ]
```


9. Until Activity:

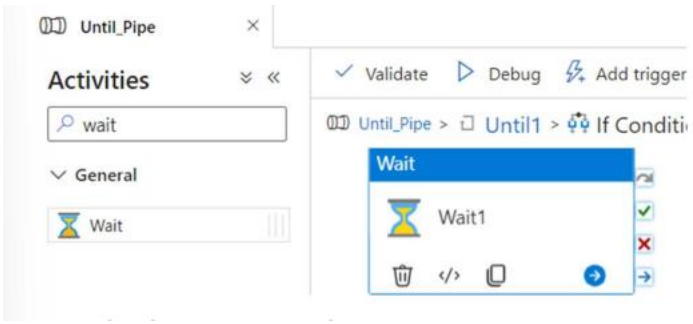
Create new pipeline and create a variable
Drag and drop the Until Acitivity



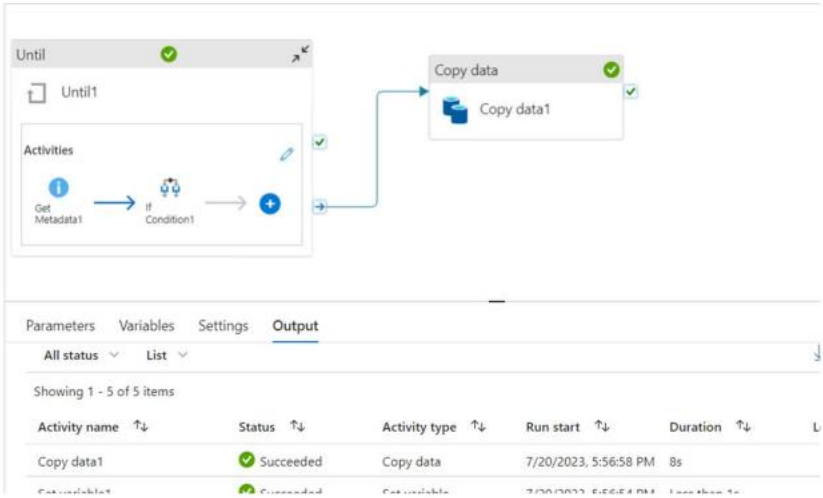
Make a connection with the if condition



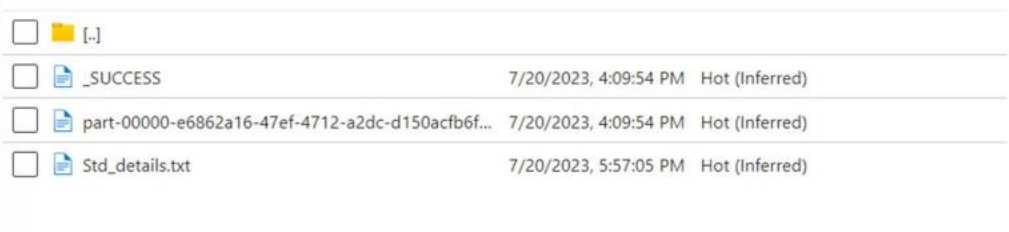
Using the wait cativity



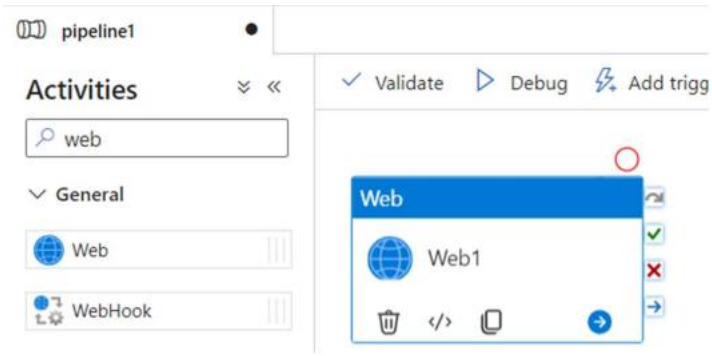
Pipeline runs successfully



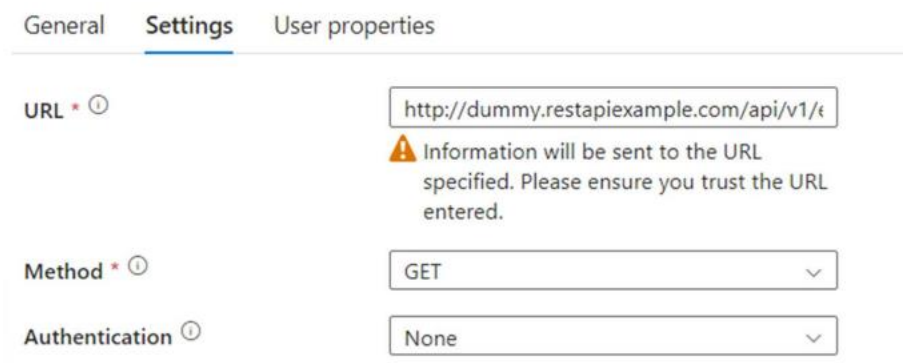
Check the output files



10. Web Activity Exercise



Set the URL and Method



Output: