

Expressions and Functions Assignment

1. Combine two strings variables into one using the concat() function.

The screenshot displays the Azure Data Factory (ADF) interface. On the left, the 'Factory Resources' pane shows a hierarchy: Pipelines (3) > pipeline1 > PL_toADLS, PL_toSQL. Below this are Datasets (2) and Data flows (0). The main canvas shows the 'Set variable' activity configuration. The 'General' tab is active, showing the activity name 'Set variable1' and its value '@concat('Azure', ' Data', ' Factory')'. The 'Settings' tab is also visible, showing 'Variable type' as 'Pipeline variable' and 'Name' as 'conc'. The 'Output' pane at the bottom left shows the JSON output: { "name": "conc", "value": "Azure Data Factory" }. The 'Pipeline status' at the bottom right indicates 'Succeeded' with a green checkmark. Below this, a table shows the execution details for the 'Set variable1' activity.

	Run start	Duration	Integration runtime
Set variable1	5/7/2025, 5:28:19 PM	Less than 1s	

2. Calculate the difference in days between two dates using datediff() function.

As datediff is not a valid function in ADF, we do it using converting the dates to ticks, then calculating the difference between them and dividing by 864000000000 as these are total number of ticks in a day.

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Activities: set, Set variable

Set variable1

Variable type: Pipeline variable (selected), Pipeline return value

Name: conc

Value: @string(div(sub(ticks('2025-01-01'), ticks('2025-02-02')), 864000000000))

Pipeline expression builder

Add dynamic content below using any combination of expressions, functions and system variables.

```
@string(div(sub(ticks('2025-01-01'), ticks('2025-02-02')), 864000000000))
```

Parameters, System variables, Functions, Variables

Output

Copy to clipboard

```
{  "name": "conc",  "value": "-32"}
```

Pipeline status: Succeeded

Monitor in Azure Metrics

	Run start	Duration	Integration runtime
Set variable1	5/7/2025, 5:40:50 PM	Less than 1s	

3. Convert to Uppercase Using String Functions.

Activities

set

General

(x) Set variable

Validate Debug Add trigger

Set variable

(x) Set variable1

General Settings User properties

Variable type

☒ Pipeline variable ☐ Pipeline return value

Name *

conc

+ New

Value

@toupper('shakshi')

Output

Copy to clipboard

```
{
  "name": "conc",
  "value": "SHAKSHI"
}
```

Pipeline status Succeeded [View debug run consumption](#)

[Monitor in Azure Metrics](#) [Export to CSV](#)

	Run start	Duration	Integration runtime	
Set variable1	5/7/2025, 5:33:44 PM	Less than 1s		U

- You need to dynamically generate a file name that includes the current date and time.

Expected file name: - Report-20241219-153000.csv

