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Semester: V

Class / Branch/ Div: TEIT C

Subject: ADL Lab

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Roll No. 43

Date of Submission: 01/08/25

Experiment No: 11

Aim: To understand AWS Lambda, its workflow, various functions and create your first Lambda functions using Python / Java / Nodejs.

Code & Output:

The screenshot displays the AWS Lambda 'Create function' interface. At the top, there's a navigation bar with the AWS logo and search bar. Below it, the breadcrumb trail shows 'Lambda > Functions > Create function'. The main content area is titled 'Create function' with an 'Info' link. It prompts the user to 'Choose one of the following options to create your function.' There are three radio buttons: 'Author from scratch' (selected), 'Use a blueprint', and 'Container image'. The 'Author from scratch' option is highlighted with a blue border. Below this, the 'Basic information' section is expanded, showing a 'Function name' field with 'sum' entered, a 'Runtime' dropdown set to 'Python 3.9', and an 'Architecture' dropdown set to 'x86_64'. To the right, a sidebar contains a 'Tutorials' section with a link to 'Create a simple web app' and a 'Start tutorial' button. The footer of the console shows 'CloudShell', 'Feedback', and copyright information for Amazon Web Services.



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The screenshot shows the AWS Lambda console for a function named 'sum'. A green notification bar at the top states: 'Successfully created the function sum. You can now change its code and configuration. To invoke your function with a test event, choose "Test".' The 'Function overview' section includes a 'Diagram' tab, a visual representation of the function with the name 'sum' and 'Layers (0)', and buttons for '+ Add trigger' and '+ Add destination'. To the right, the 'Description' section shows 'Last modified' as '1 second ago', 'Function ARN' as 'arn:aws:lambda:ap-south-1:5641029563:83:function:sum', and 'Function URL' as 'Info'. Below the overview, tabs for 'Code', 'Test', 'Monitor', 'Configuration', 'Aliases', and 'Versions' are visible. The 'Code source' section at the bottom has buttons for 'Open in Visual Studio Code' and 'Upload from'. The right sidebar contains 'Info' and 'Tutorials' tabs, with a 'Create a simple web app' tutorial card.

This screenshot shows the 'Code source' tab for the 'sum' function. The 'Code source' section has buttons for 'Open in Visual Studio Code' and 'Upload from'. The main area displays the Python code for the function in a file named 'lambda_function.py':

```
1 import json
2
3 def lambda_handler(event, context):
4     first_number = 100
5     second_number = 200
6     sum = first_number + second_number
7     return sum
8
9
```

On the left, the 'EXPLORER' pane shows the file structure with 'SUM' and 'lambda_function.py'. Below it, a 'DEPLOY [UNDEPLOYED CHANGES]' section indicates 'You have undeployed changes.' and provides a 'Deploy (Ctrl+Shift+U)' button. The right sidebar is identical to the previous screenshot, showing the 'Tutorials' tab and the 'Create a simple web app' tutorial card.

https://ap-south-1.console.aws.amazon.com/lambda/home?region=ap-south-1#/functions/sum?tab=code



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aws [Search] [Alt+S] Asia Pacific (Mumbai) Shreya

Lambda > Functions > sum

Successfully created the function **sum**. You can now change its code and configuration. To invoke your function with a test event, choose "Test".

Code **Test** Monitor Configuration Aliases Versions

Test event [Info](#) [CloudWatch Logs Live Tail](#) [Save](#) [Test](#)

To invoke your function without saving an event, configure the JSON event, then choose Test.

Test event action

☒ Create new event ☐ Edit saved event

Event name

shreyaa

Maximum of 25 characters consisting of letters, numbers, dots, hyphens and underscores.

Event sharing settings

☒ Private
This event is only available in the Lambda console and to the event creator. You can configure a total of 10. [Learn more](#)

☐ Shareable
This event is available to IAM users within the same account who have permissions to access and use shareable events. [Learn more](#)

Template - optional

Hello World

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aws [Search] [Alt+S] Asia Pacific (Mumbai) Shreya

Lambda > Functions > sum

Successfully created the function **sum**. You can now change its code and configuration. To invoke your function with a test event, choose "Test".

The test event "shreyaa" was successfully saved.

Test event [Info](#) [Delete](#) [CloudWatch Logs Live Tail](#) [Save](#) [Test](#)

To invoke your function without saving an event, modify the event, then choose Test. Lambda uses the modified event to invoke your function, but does not overwrite the original event until you choose Save.

Test event action

☐ Create new event ☒ Edit saved event

Event name

shreyaa

Event JSON [Format JSON](#)

```
1 {  
2     
3 }
```

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Lambda > Functions > sum

Successfully updated the function sum.

Deploy (Ctrl+Shift+U)
Test (Ctrl+Shift+I)

TEST EVENTS [SELECTED: SHREYAA]
+ Create new test event
Private saved events
shreyaa

PROBLEMS OUTPUT ... Execution Results

Status: Succeeded
Test Event Name: shreyaa

Response:
300

Function Logs:
START RequestId: c1ac352c-28de-4cf4-9c00-6fb5dd821fa3
Version: \$LATEST

Ln 9, Col 1 Spaces: 4 UTF-8 LF Python Lambda Layout: us

Code properties Info

Package size
235 byte

SHA256 hash
z6JDE+ISKQZJf1FxMWHCx
oGqQ2vz62S7ZbRW2BoJPA=

Last modified
47 seconds ago

Execution with AWS KMS customer-managed KMS key info

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aws [Search] [Alt+S] Asia Pacific (Mumbai) Shreya

Lambda > Functions > sum

Successfully updated the function sum.
The test event "shreyaa" was successfully saved.

Test event Info

To invoke your function without saving an event, modify the event, then choose Test. Lambda uses the modified event to invoke your function, but does not overwrite the original event until you choose Save.

Test event action

Create new event Edit saved event

Event name
shreyaa

Event JSON

```
{  
  "name": "shreyaa"  
}
```

Format JSON

Info Tutorials

Learn how to implement common use cases in AWS Lambda.

Create a simple web app

In this tutorial you will learn how to:

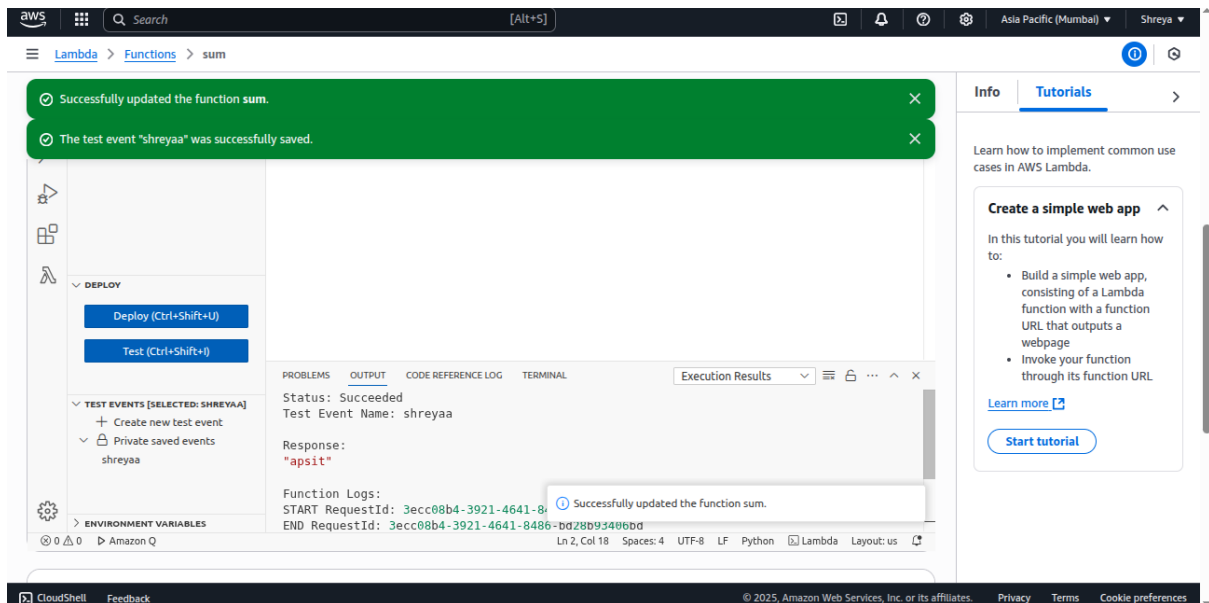
- Build a simple web app, consisting of a Lambda function with a function URL that outputs a webpage
- Invoke your function through its function URL

Learn more Start tutorial

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Conclusion: In this experiment, we learned about Lambda Workflow in which we write code then configure triggers, deploying and testing. Also created Lambda Functions and Tested Functionality. We understand the fundamentals of AWS Lambda and deploying cloud-native functions.