

Q10) To create Lambda function using Python to display "Hello_StudentName".

Create a new Role:

Roles (5) <small>Info</small>		
An IAM role is an identity you can create that has specific permissions with credentials that are valid for short durations. Roles can be assumed by entities that you trust.		
Role name	Trusted entities	Last activity
AWSLambdaRoleForResourceExplorer	AWS Service: resource-explorer-2	C
AWSLambdaRoleForSupport	AWS Service: support (Service-Linker)	C
AWSLambdaRoleForTrustedAdvisor	AWS Service: trustedadvisor (Service)	C
ObjectAdded-role-ceagmly3	AWS Service: lambda	C
ObjectAdded-role-kr32l7cc	AWS Service: lambda	C

Select trusted entity Info

Trusted entity type

AWS service
Allow AWS services like EC2, Lambda, or others to perform actions in this account.

SAML 2.0 federation
Allow users federated with SAML 2.0 from a corporate directory to perform actions in this account.

Use case
Allow an AWS service like EC2, Lambda, or others to perform actions in this account.

Service or use case
Lambda

Choose a use case for the specified service.

Use case
 Lambda
Allows Lambda functions to call AWS services on your behalf.

Name, review, and create

Role details

Role name

Enter a meaningful name to identify this role.

RishabhRole

Maximum 64 characters. Use alphanumeric and '+=-_,@-' characters.

Description

Permissions policy summary

Policy name	Type	Attached as
AmazonS3FullAccess	AWS managed	Permissions policy
AWSLambda_FullAccess	AWS managed	Permissions policy
CloudWatchFullAccess	AWS managed	Permissions policy

Role RishabhRole created.

Now , we will create the Lambda Function

Create function Info

Choose one of the following options to create your function.

Author from scratch

Start with a simple Hello World example.

Basic information

Function name

Enter a name that describes the purpose of your function.

PythonHelloFunction

Function name must be 1 to 64 characters, must be unique to the Region, and can't include spaces. Valid characters are a-z, A-Z, 0-9, hyphens (-), and underscores (_).

Runtime | Info

Choose the language to use to write your function. Note that the console code editor supports only Node.js, Python, and Ruby.

Python 3.13



Architecture | Info

Choose the instruction set architecture you want for your function code.

- arm64
- x86_64

▼ Change default execution role

Execution role

Choose a role that defines the permissions of your function. To create a custom role, go to the [IAM console](#).

- Create a new role with basic Lambda permissions
- Use an existing role
- Create a new role from AWS policy templates

Existing role

Choose an existing role that you've created to be used with this Lambda function. The role must have permission to upload logs

RishabhRole

[View the RishabhRole role](#) on the IAM console.

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

PythonHelloFunction

Now, move to the code section and change the code to "Hello StudentName"

Code

Test

Monitor

Configuration

Aliases

Versions

Code source [Info](#)

The screenshot shows the AWS Lambda code editor for the function PythonHelloFunction. The left sidebar has icons for EXPLORER, PYTHONHELLOFUNCTION (selected), lambda_function.py (selected), and other options like TEST, MONITOR, and CONFIGURATION. The main area shows a file named lambda_function.py with the following code:

```
lambda_handler(event, context):
    # TODO implement
    return {
        'statusCode': 200,
        'body': json.dumps('Hello Rishabh')
```

Now create a test event

Create new test event

Event Name
testevent
Maximum of 25 characters consisting of letters, numbers, and underscores.

Event sharing settings
 Private
This event is only available in the Lambda Console and to other users in your account.
[more](#)

Shareable
This event is available to IAM users within the same account.
[Learn more](#)

Template - optional
Hello World

Event JSON

```
1  {
2    "key1": "value1",
3    "key2": "value2",
4    "key3": "value3"
5 }
```

DEPLOY [UNDEPLOYED CHANGES]
⚠ You have undeployed changes.
Deploy (Ctrl+Shift+U)
Test (Ctrl+Shift+I)

TEST EVENTS [NONE SELECTED] +

+ Create new test event

Success message:
Successfully created the function **PythonHelloFunction**. You can now change its code and configuration. To invoke your function with a test event, choose "Test".
The test event "testevent" was successfully saved.

Now, we will click deploy and then click Test

Status: Succeeded
Test Event Name: testevent

Response:

```
{
  "statusCode": 200,
  "body": "\"Hello Rishabh\""
}
```

Now we will delete the roles and functions that we have created