

# Cloud Computing Assignment 1

Vanshika Goel

PES1UG20CS484

Section H

Roll No 40

1a

The screenshot shows the AWS Lambda console for the function **PES1UG20CS484**. The **Function overview** tab is selected, displaying the function's name, layers (0), and description. The **Code source** tab is also visible, showing the function's code in a text editor. The function is configured with a **Test** trigger and a **Deploy** button. The **Code source** tab shows the following code:

```
1 import json
2
3 def lambda_handler(event, context):
```

1b

The screenshot shows the AWS Lambda console for the function **PES1UG20CS484**. The **Configuration** tab is selected, displaying the function's configuration. The **Triggers** section shows a single trigger: **API Gateway: PES1UG20CS484-API**. The trigger is configured with the **API endpoint** `https://ymra5hhezg.execute-api.us-west-2.amazonaws.com/default/PES1UG20CS484`. The **General configuration** section shows the function's name, layers (0), and description. The **Triggers** section shows the trigger's name, type, and configuration.

1c

Successfully updated the function PES1UG20CS484.

**Code source** Info

File Edit Find View Go Tools Window Test Deploy

Go to Anything (⌘P)

Environment

- PES1UG20CS484
  - lambda\_function.py

```

1 import json
2 import base64, csv, io
3 from statistics import mean
4
5
6 def lambda_handler(event, context):
7     if event['httpMethod'] == 'GET':
8         method = event['queryStringParameters']['key']
9         return {
10             'statusCode': 200,
11             'body': json.dumps(f'PES1UG20CS484: {method}')
12         }
13
14
15 elif event['httpMethod'] == 'POST':
16     base64csv = event['body']
17     if base64csv == None:
18         return {
19             'statusCode': 200,
20             'body': json.dumps("No CSV found.")
21         }
22
23     rows = []
24     decrypted = base64.b64decode(str(base64csv)).decode('utf-8')
25
26     with io.StringIO(decrypted) as fp:
27         reader = list(csv.reader(fp, delimiter=";", quotechar='"'))
28         for row in reader[4:-2]:
29             rows.append(row)
30
31     transposed = [list(i) for i in zip(*rows)]
32
33     mean = dict()

```

3:28 Python Spaces: 4

**Code properties**

Feedback Looking for language selection? Find it in the new Unified Settings

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1d

Home Workspaces API Network Explore

Search Postman

Invite Upgrade

**My Workspace** New Import Overview

GET https://7fa4a7eiu6.exe...

No Environment

Collections

- My first collection
  - First folder inside collection
    - GET
    - POST
    - GET
    - GET
  - Second folder inside collection
    - GET
    - GET

Create a collection for your requests

A collection lets you group related requests and easily set common authorization, tests, scripts, and variables for all requests in it.

Create Collection

https://7fa4a7eiu6.execute-api-us-west-2.amazonaws.com/default/PES1UG20CS484?key=hello

GET https://7fa4a7eiu6.execute-api-us-west-2.amazonaws.com/default/PES1UG20CS484?key=hello

Params Authorization Headers (5) Body Pre-request Script Tests Settings Cookies

Query Params

KEY	VALUE	DESCRIPTION	Bulk Edit
<input checked="" type="checkbox"/> key	hello		
Key	Value	Description	

Body Cookies Headers (5) Test Results

Status: 200 OK Time: 2.07 s Size: 198 B Save Response

Pretty Raw Preview Visualize Text

```

1 "PES1UG20CS484: hello"

```

Online Console

Cookies Auto-select agent Runner Trash Continue learning

1e

The screenshot shows the Postman interface with a POST request to `https://7fa4a7eiu6.execute-api.us-west-2.amazonaws.com/default/PES1UG20CS484?key=hello`. The request body is a JSON object: `{'Inno': 12.93596, 'Vation': 18.98936, 'Lab': 16.91436, 'Hashco': 16.1316, 'Deleven': 11.01778}`. The response status is 200 OK, with a time of 8.76 s and a size of 273 B.

KEY	VALUE	DESCRIPTION
key	Zw-fDpKL6/times.csv	
Key	Value	Description

Body: `1 { 'Inno': 12.93596, 'Vation': 18.98936, 'Lab': 16.91436, 'Hashco': 16.1316, 'Deleven': 11.01778 }`

1f

The screenshot shows the Postman interface with a PUT request to `https://7fa4a7eiu6.execute-api.us-west-2.amazonaws.com/default/PES1UG20CS484?key=hello`. The request body is a string: `"Only GET and POST are supported"`. The response status is 200 OK, with a time of 3.90 s and a size of 209 B.

KEY	VALUE	DESCRIPTION
key	Zw-fDpKL6/times.csv	
Key	Value	Description

Body: `1 "Only GET and POST are supported"`