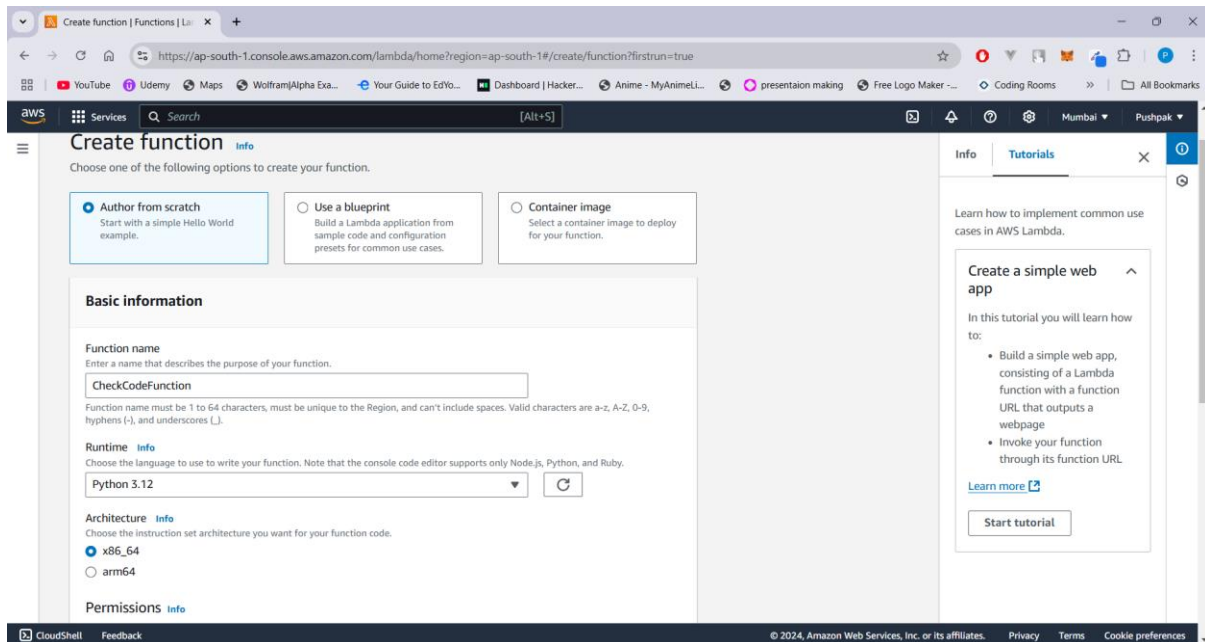


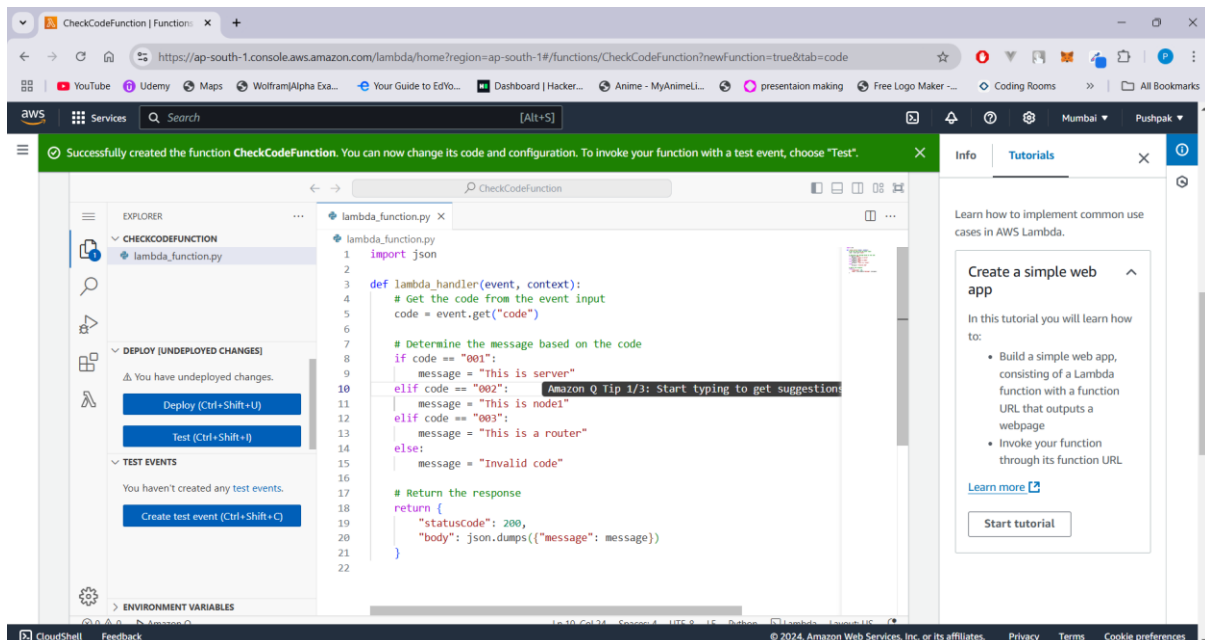
# Assignment 3

## Question 1

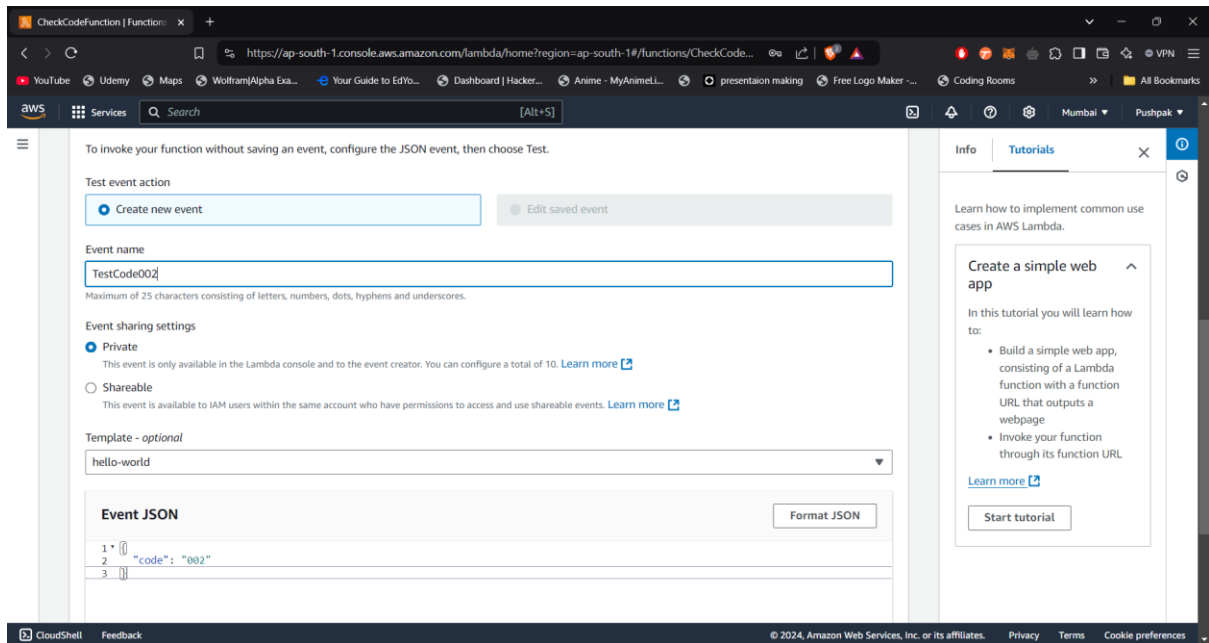
### Creating lambda function



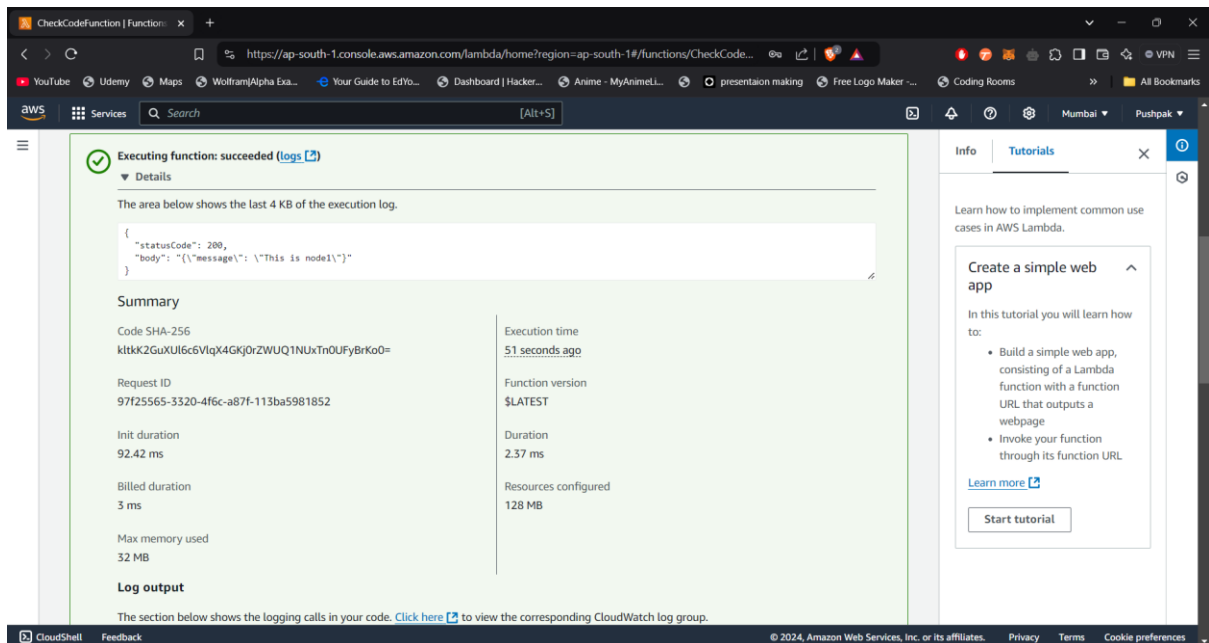
### Adding new code



# Creating test event

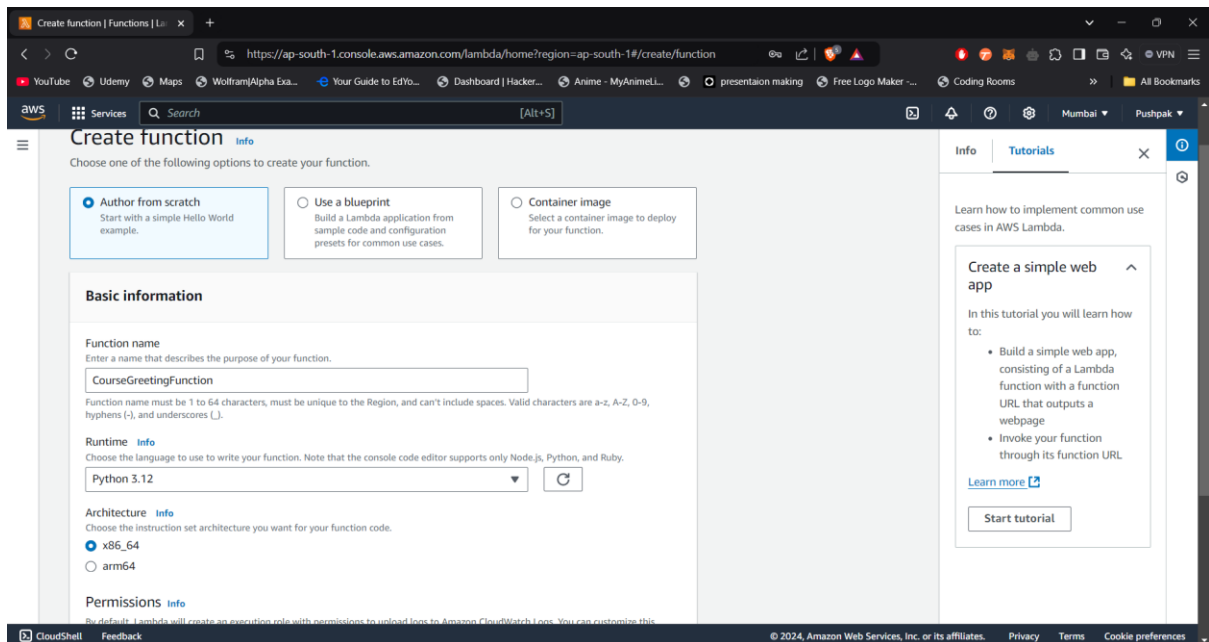


# Running the test

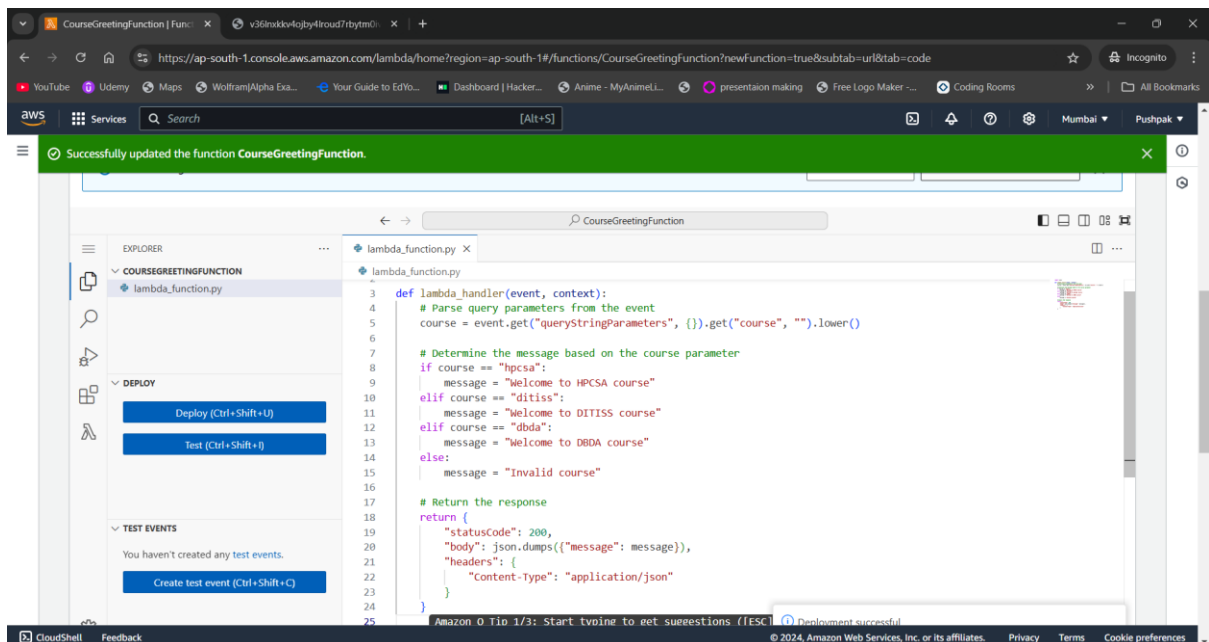


# Question 2

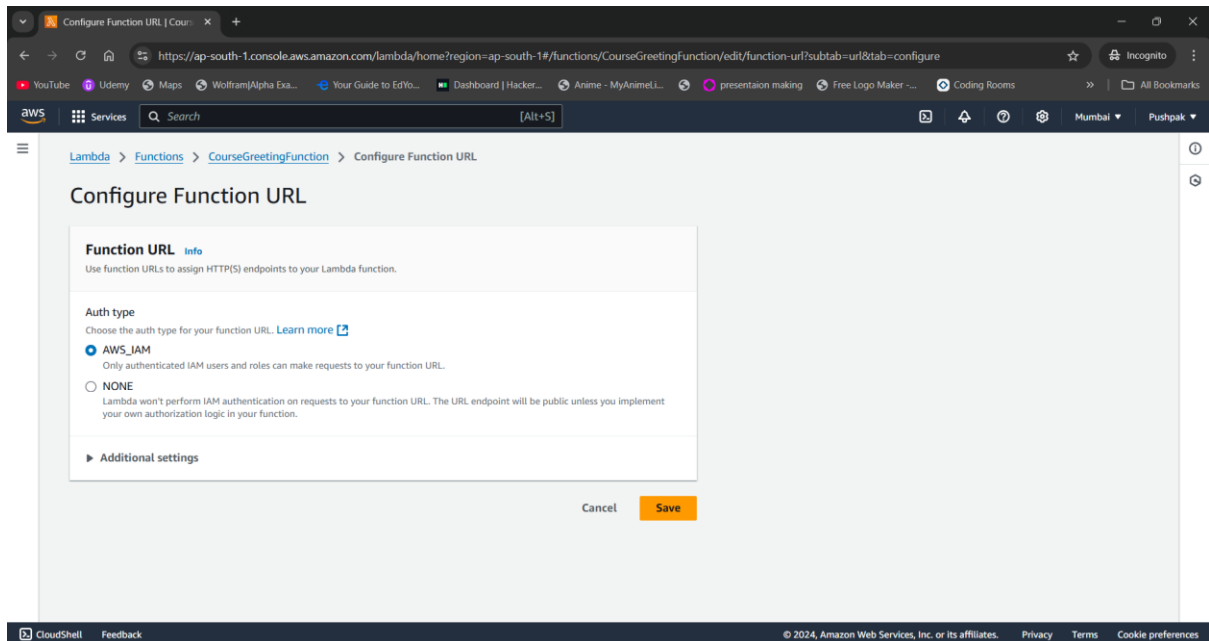
## Creating a function



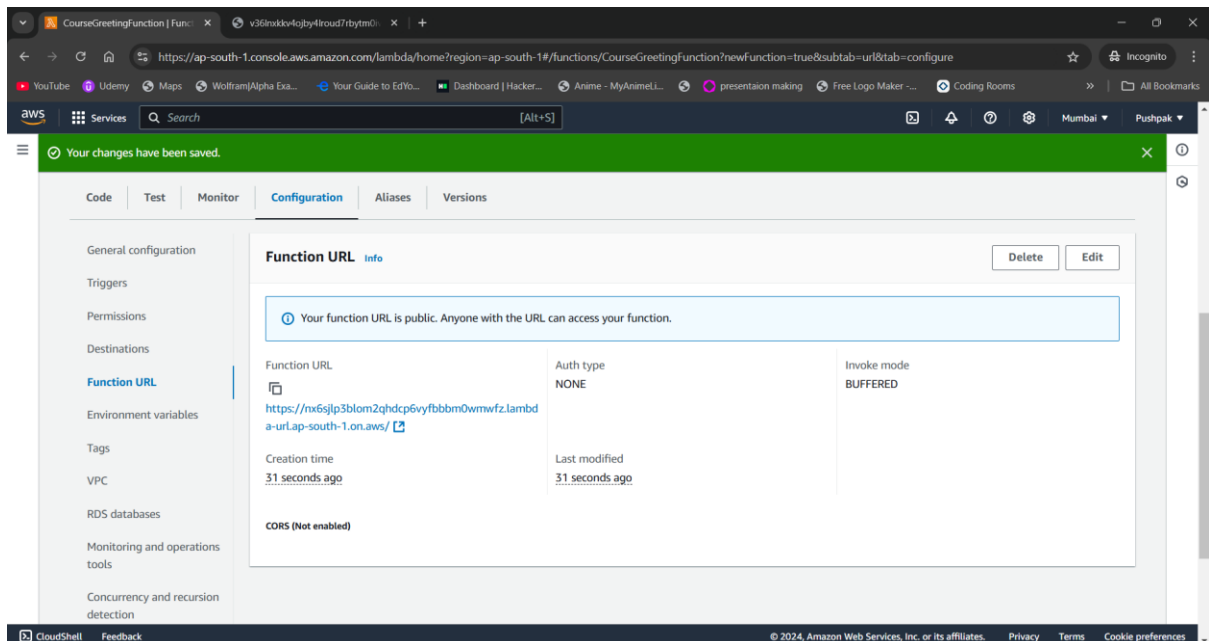
## Source code



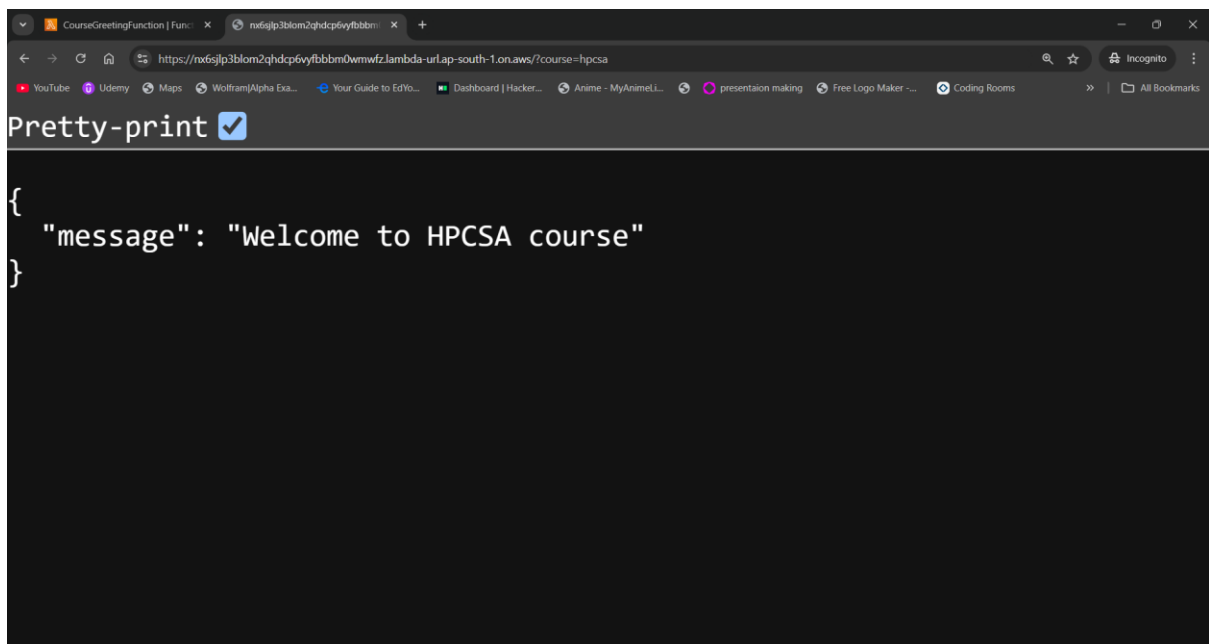
# Setting up function URL



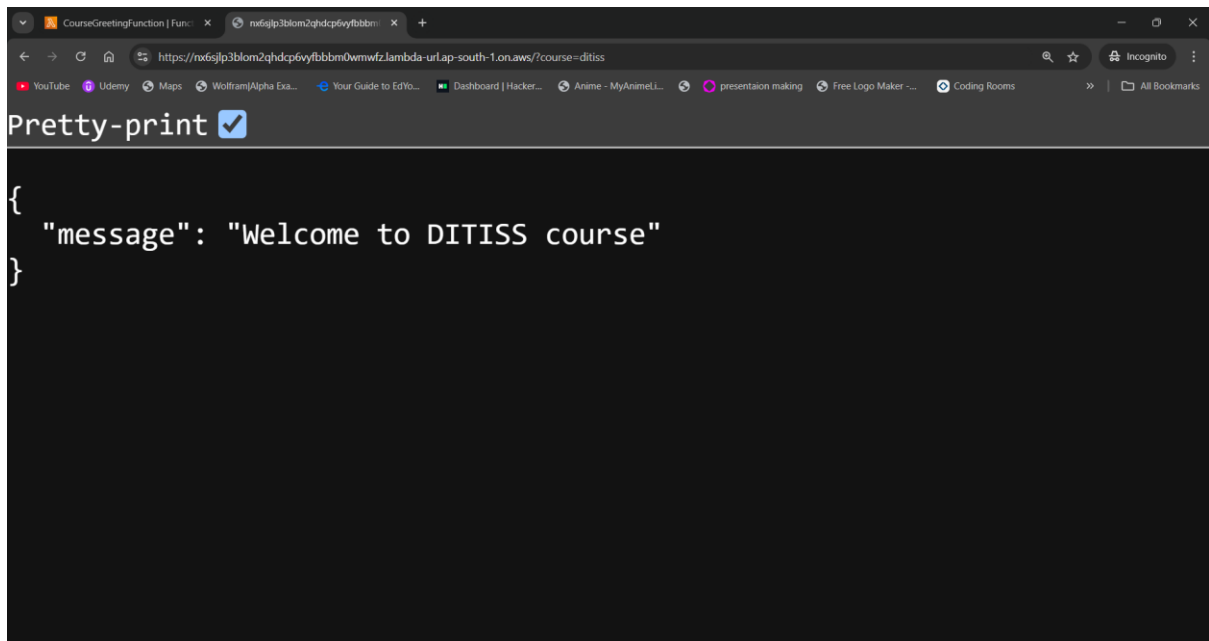
## Function URL



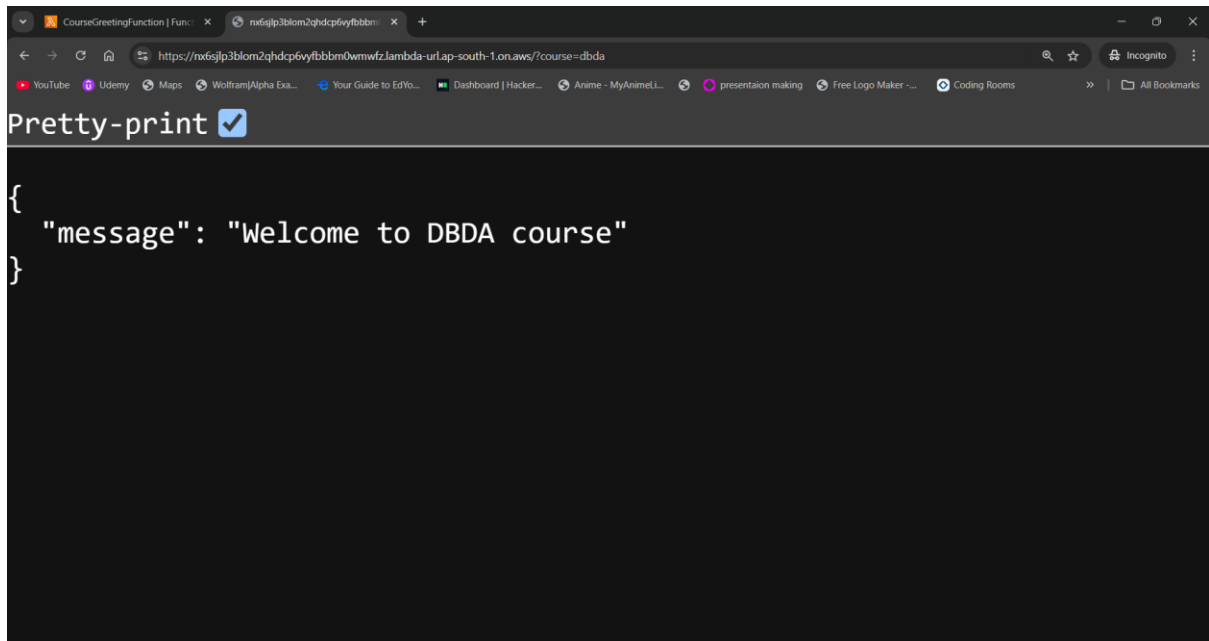
## Output for hpcsa



## Output for ditiss



## Output for dbda



## Question 3

### Creating an IAM user

The screenshot shows the 'Create user' page in the AWS IAM console, specifically Step 2: User details. The page is titled 'User details' and contains the following sections:

- User name:** A text input field containing 'Mike'. Below it, a note states: 'The user name can have up to 64 characters. Valid characters: A-Z, a-z, 0-9, and + = , @ \_ - (hyphen)'.
- Provide user access to the AWS Management Console - optional:** A checkbox that is checked. Below it, a note states: 'If you're providing console access to a person, it's a [best practice](#) to manage their access in IAM Identity Center.'
- Are you providing console access to a person?:** A section with two radio button options:
  - ☐ Specify a user in Identity Center - Recommended: We recommend that you use Identity Center to provide console access to a person. With Identity Center, you can centrally manage user access to their AWS accounts and cloud applications.
  - ☒ I want to create an IAM user: We recommend that you create IAM users only if you need to enable programmatic access through access keys, service-specific credentials for AWS CodeCommit or Amazon Keyspaces, or a backup credential for emergency account access.
- Console password:** Two radio button options:
  - ☐ Autogenerated password: You can view the password after you create the user.
  - ☒ Custom password: Enter a custom password for the user. Below this is a text input field containing '\*\*\*\*\*'.

At the bottom, there are two small notes:

- Must be at least 8 characters long
- Must include at least three of the following mix of character types: uppercase letters (A-Z), lowercase letters (a-z), numbers (0-9), and symbols (!@#\$%^&\*~). (hyphen)

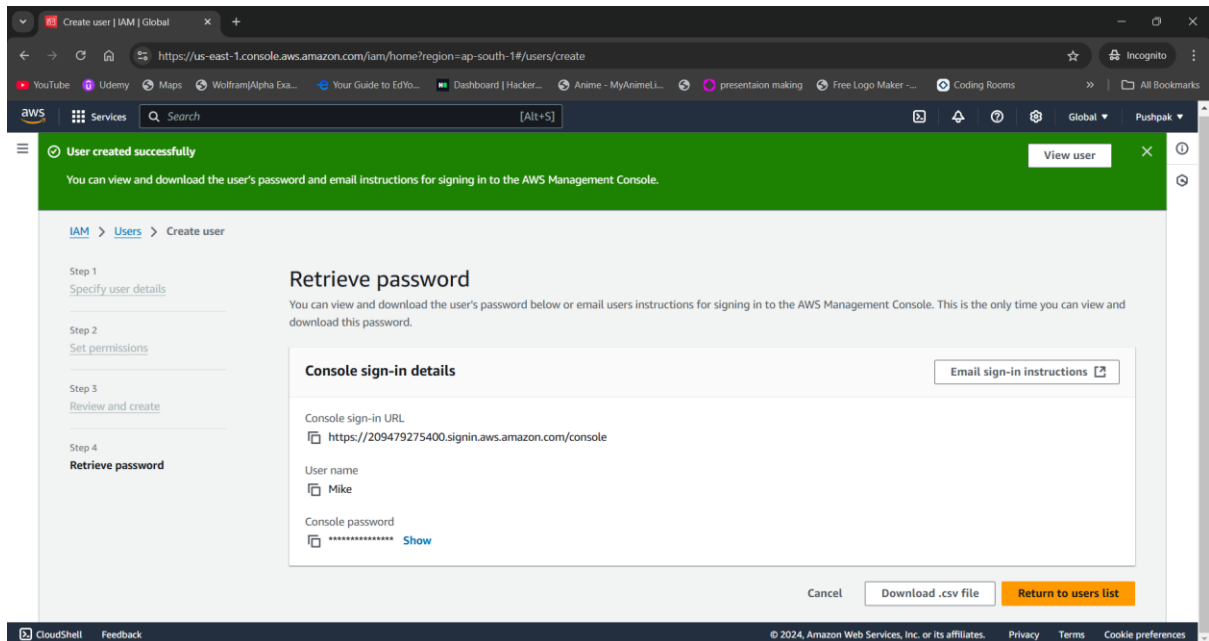
### Set S3 permissions

The screenshot shows the 'Set permissions' page in the AWS IAM console. The page is titled 'Set permissions' and contains the following sections:

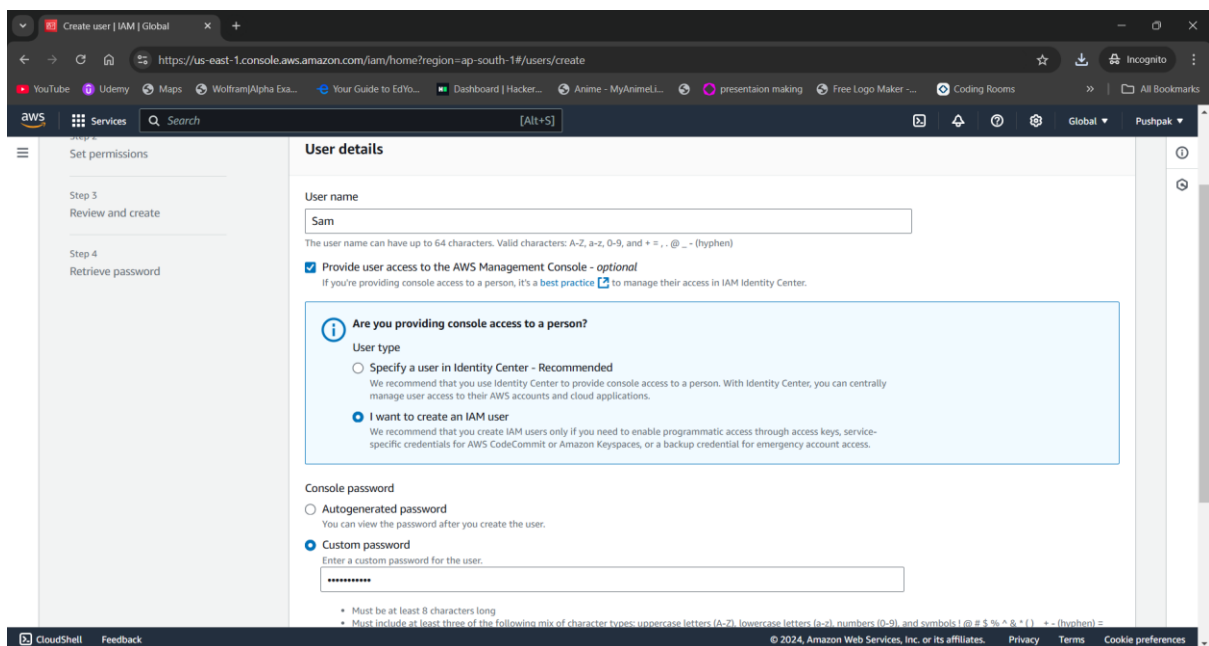
- Permissions options:** Three radio button options:
  - ☐ Add user to group: Add user to an existing group, or create a new group. We recommend using groups to manage user permissions by job function.
  - ☐ Copy permissions: Copy all group memberships, attached managed policies, and inline policies from an existing user.
  - ☒ Attach policies directly: Attach a managed policy directly to a user. As a best practice, we recommend attaching policies to a group instead. Then, add the user to the appropriate group.
- Permissions policies (1/1253):** A section with a search bar containing 's3' and a filter dropdown set to 'All types'. It shows 12 matches. Below is a table with the following columns: Policy name, Type, and Attached entities.

Policy name	Type	Attached entities
<input type="checkbox"/> AmazonDMSRedshiftS3Role	AWS managed	0
<input checked="" type="checkbox"/> AmazonS3FullAccess	AWS managed	0
<input type="checkbox"/> AmazonS3ObjectLambdaExecution...	AWS managed	0

## User created successfully

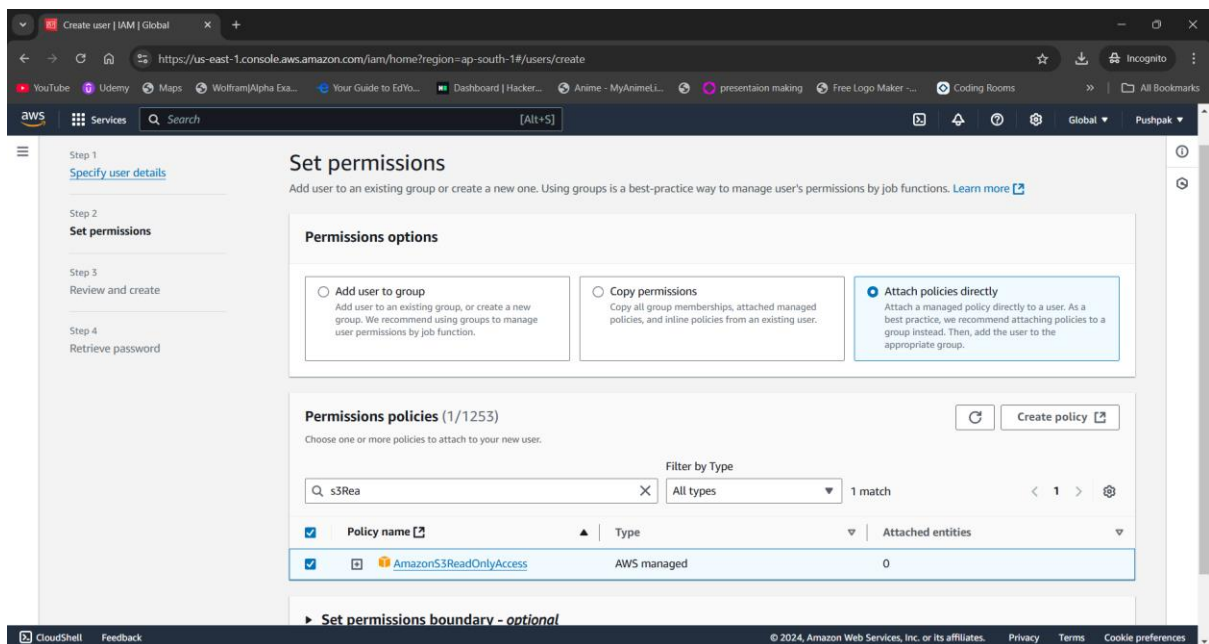


## Create an IAM User "Sam" with Read-Only S3 Access

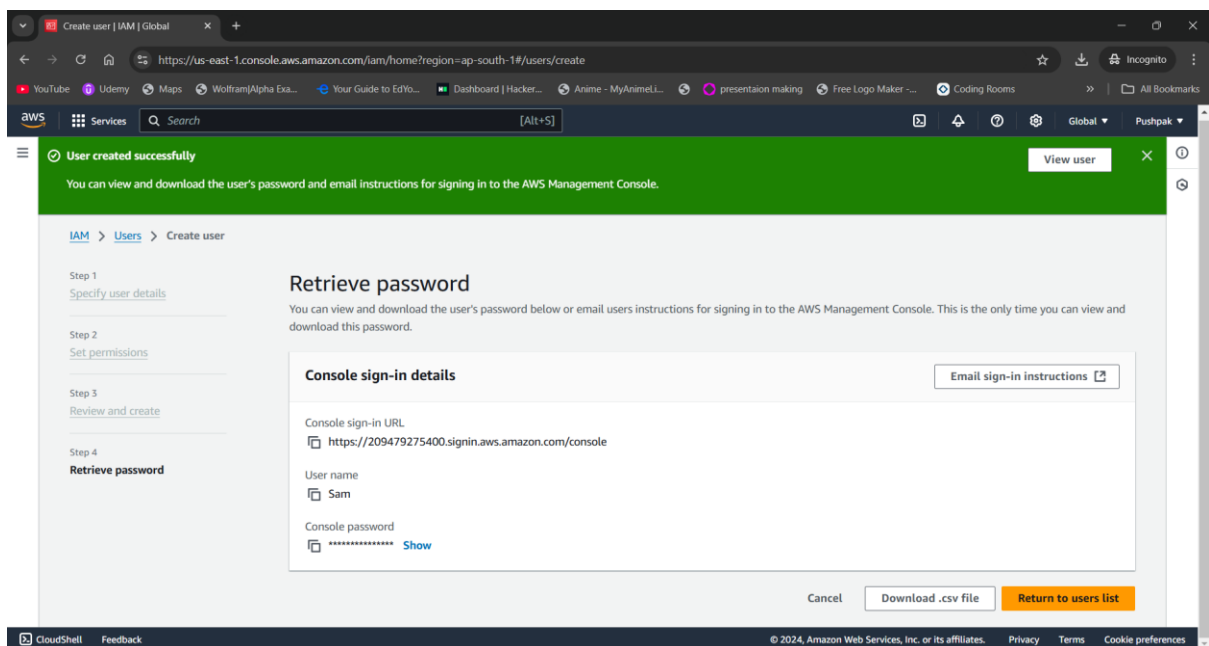




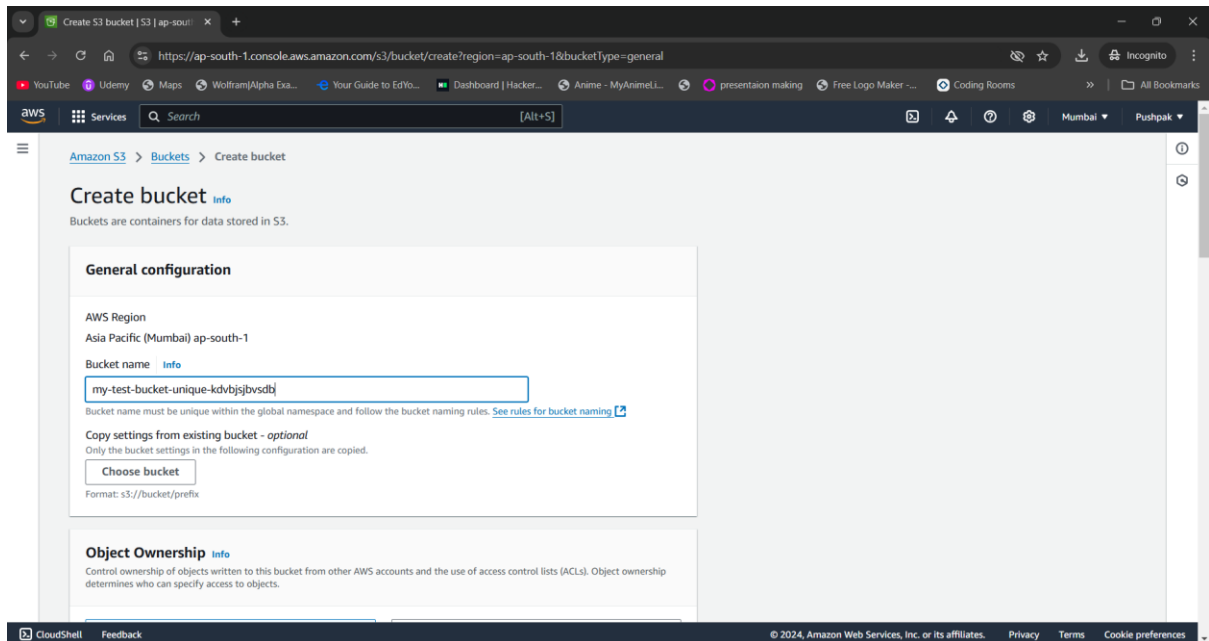
## Setting read-only permissions



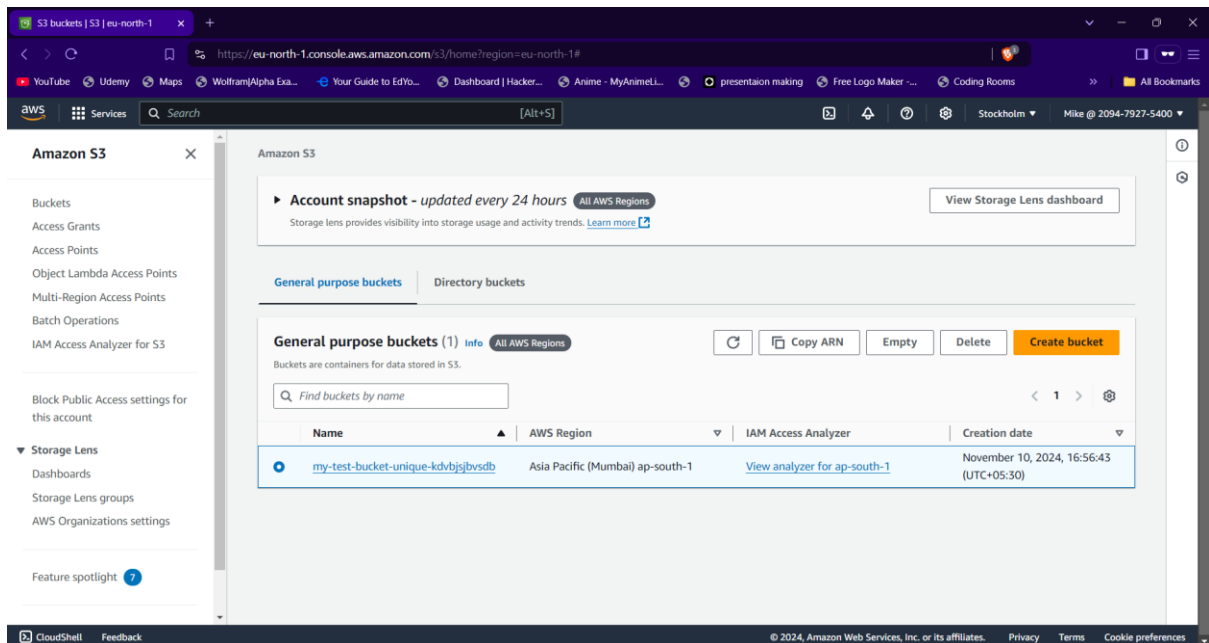
## Created successfully



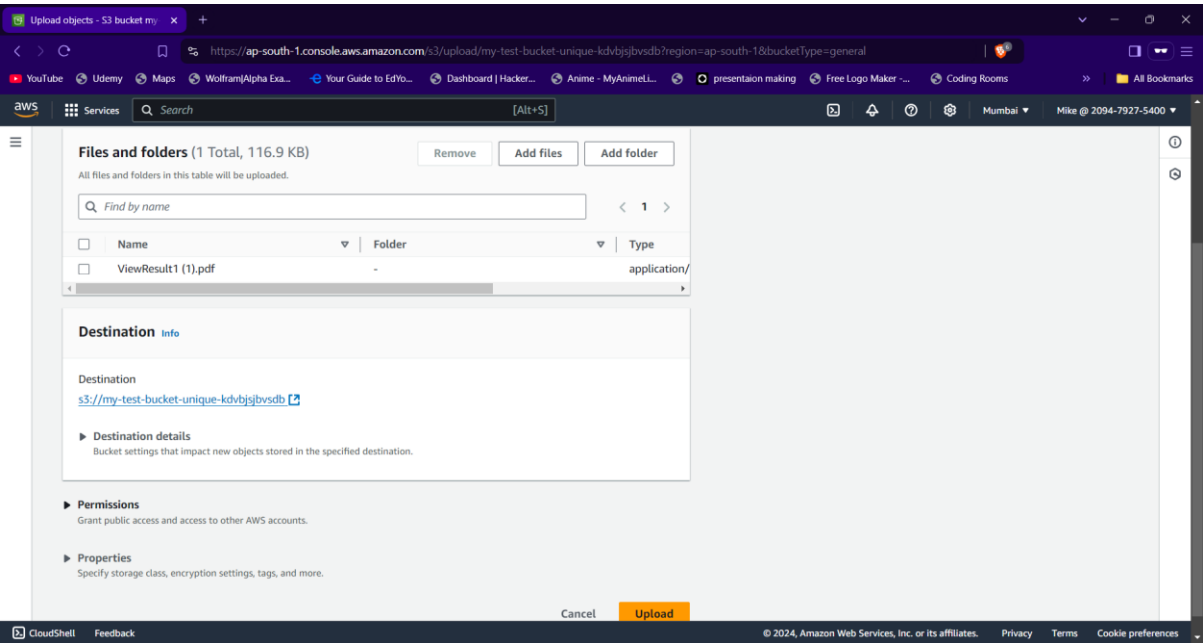
# Creating S3 bucket



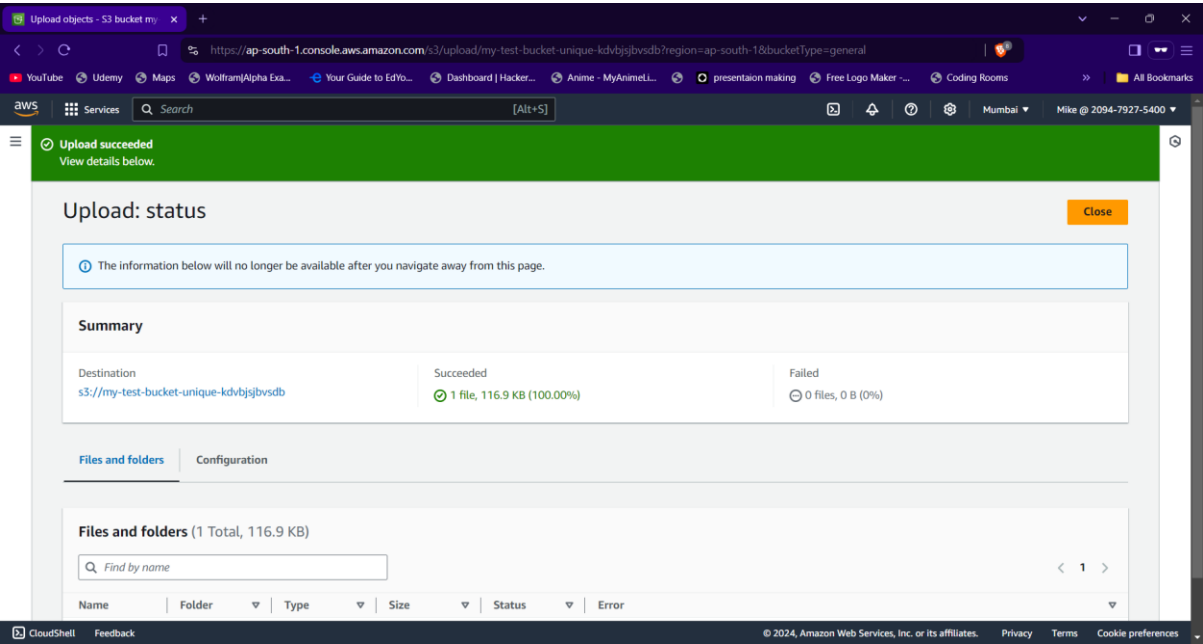
## Logged in as Mike



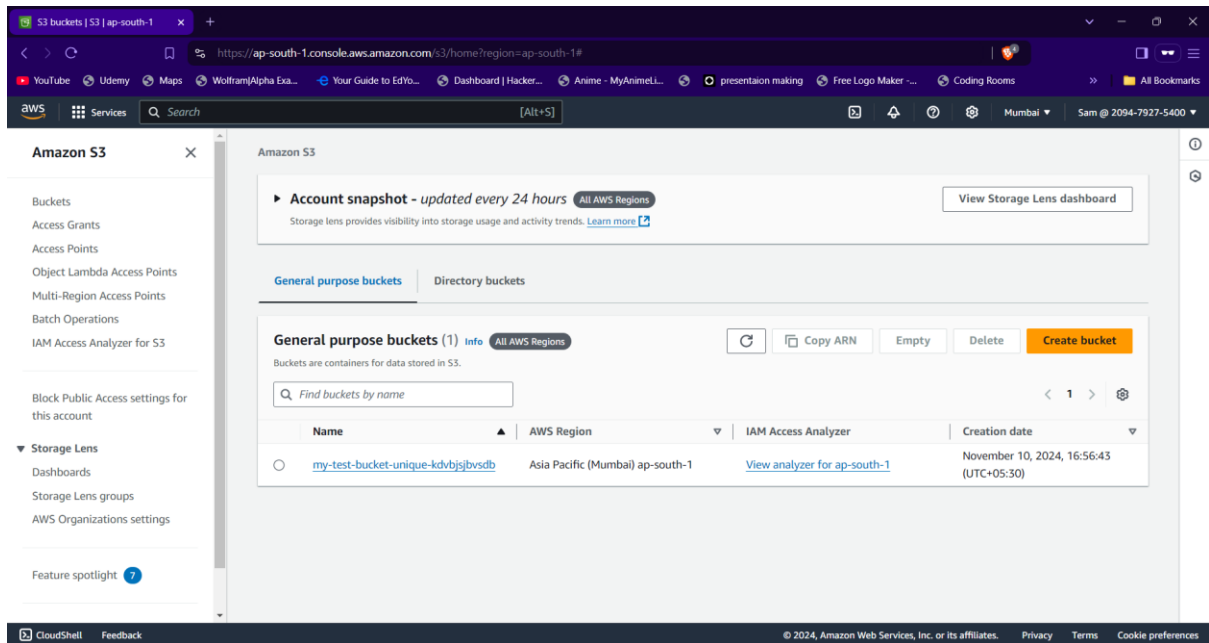
# Uploading a file



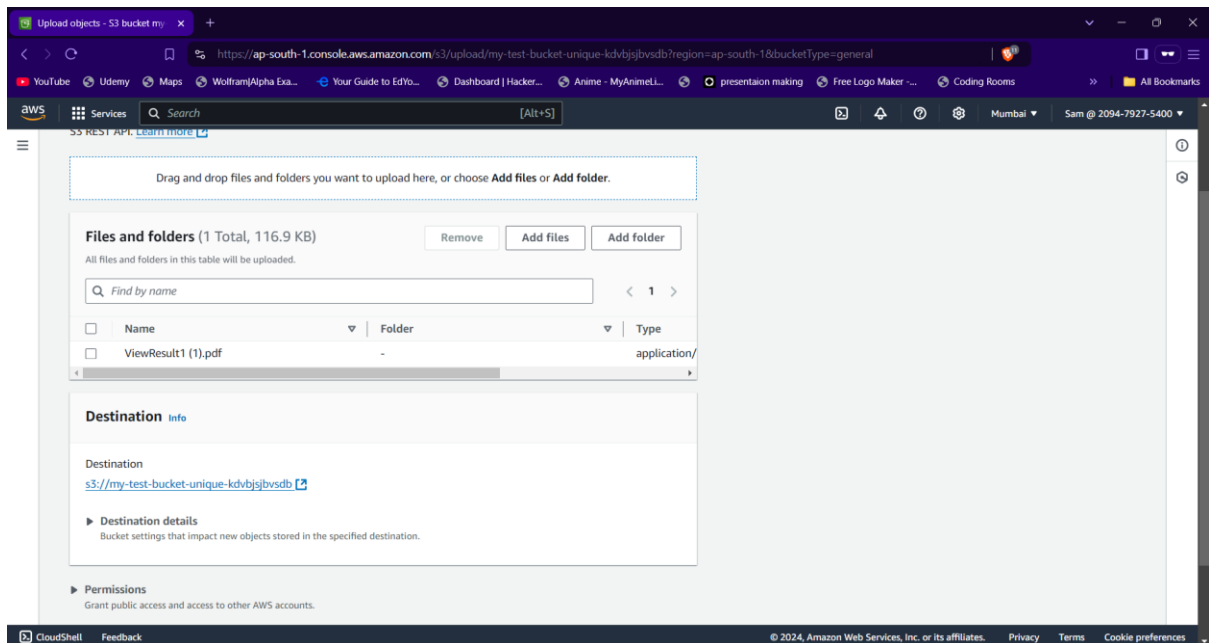
# Uploaded successfully



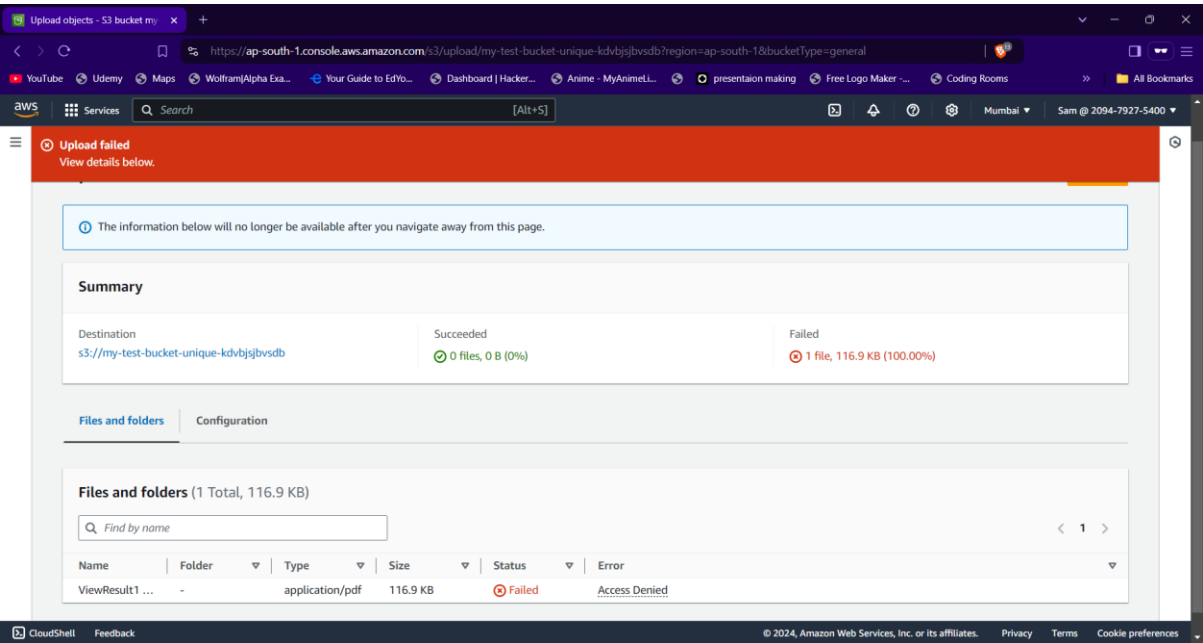
## Logging in as Sam



## Trying to upload file



# Upload fail



## Question 4

```
pushpak@MSI: ~/assig
pushpak@MSI:~/assig$ git init
hint: Using 'master' as the name for the initial branch. This default branch name
hint: is subject to change. To configure the initial branch name to use in all
hint: of your new repositories, which will suppress this warning, call:
hint:
hint:   git config --global init.defaultBranch <name>
hint:
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this command:
hint:
hint:   git branch -m <name>
Initialized empty Git repository in /home/pushpak/assig/.git/
pushpak@MSI:~/assig$ echo "This is line 1" > index.html
pushpak@MSI:~/assig$ echo "This is line 2" >> index.html
pushpak@MSI:~/assig$ git add index.html
pushpak@MSI:~/assig$ git commit -m "Add initial version of index.html with 2 lines"
[master (root-commit) d0984d4] Add initial version of index.html with 2 lines
1 file changed, 2 insertions(+)
 create mode 100644 index.html
pushpak@MSI:~/assig$ git sta
stage      stash      status
pushpak@MSI:~/assig$ git status
On branch master
nothing to commit, working tree clean
pushpak@MSI:~/assig$ |
```

## Modifying index.html

```
pushpak@MSI: ~/assig
pushpak@MSI:~/assig$ echo "This is line 3" >> index.html
pushpak@MSI:~/assig$ echo "This is line 4" >> index.html
pushpak@MSI:~/assig$ cat index.html
This is line 1
This is line 2
This is line 3
This is line 4
pushpak@MSI:~/assig$ git add index.html
pushpak@MSI:~/assig$ git commit -m "Add two more lines to index.html"
[master 75c4b10] Add two more lines to index.html
1 file changed, 2 insertions(+)
pushpak@MSI:~/assig$ |
```

## Additional commit

```
pushpak@MSI: ~/assig$ echo "This is line 5" >> index.html
pushpak@MSI:~/assig$ echo "This is line 6" >> index.html
pushpak@MSI:~/assig$ cat index.html
This is line 1
This is line 2
This is line 3
This is line 4
This is line 5
This is line 6
pushpak@MSI:~/assig$ git status
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   index.html

no changes added to commit (use "git add" and/or "git commit -a")
pushpak@MSI:~/assig$ git add index.html
pushpak@MSI:~/assig$ git commit -m "Add two more lines to index.html, totaling 6 lines"
[master 0c40723] Add two more lines to index.html, totaling 6 lines
 1 file changed, 2 insertions(+)
pushpak@MSI:~/assig$ git status
On branch master
nothing to commit, working tree clean
pushpak@MSI:~/assig$ |
```

## Restore the 4-line version of the file

```
pushpak@MSI: ~/assig$ git log --oneline
0c40723 (HEAD -> master) Add two more lines to index.html, totaling 6 lines
75c4b10 Add two more lines to index.html
d0984d4 Add initial version of index.html with 2 lines
pushpak@MSI:~/assig$ git checkout 75c4b10 -- index.html
pushpak@MSI:~/assig$ cat index.html
This is line 1
This is line 2
This is line 3
This is line 4
pushpak@MSI:~/assig$ |
```