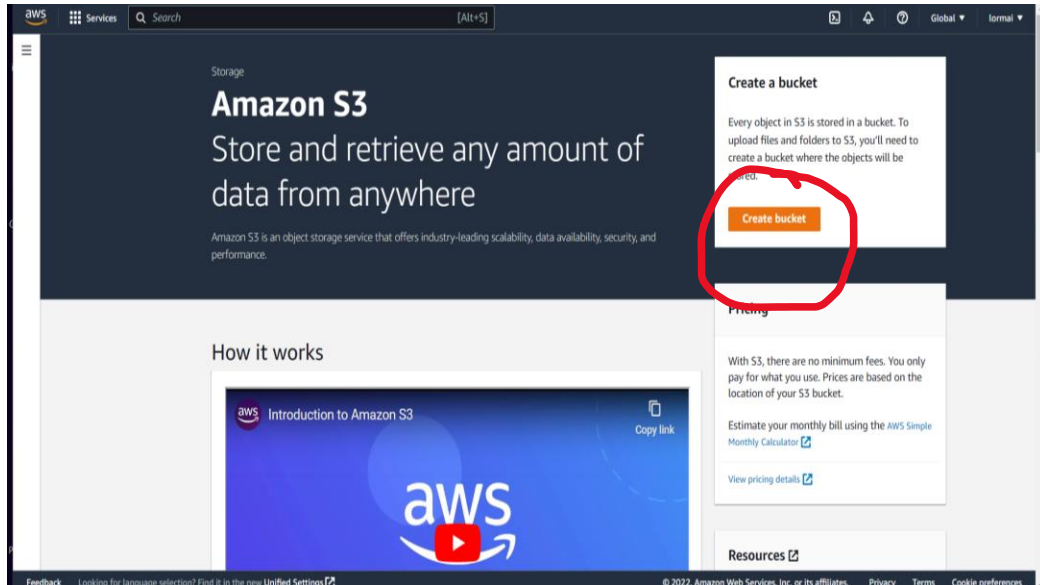


Team 3 –Prototype Version 1

Prototype uses the following Use Case: Uploading File

Before being able to upload files or do anything with AWS s3 Bucket, you must create an account [here](#). Next, you will want to create a bucket where your objects will be stored in.



When you create a bucket, you will name your bucket. No special characters and names that has been used. After creating the bucket, you will create or generate a policy and assign it to a user. That way, the user can have access to the bucket through ACL, SDK ,etc... Creating a user will generate an access key and secret key; these allows users the authorized user to get into the bucket. You will download the access key and secret key. You will use command prompt to connect to the bucket. You will use the command:

aws configure

```
Command Prompt
Microsoft Windows [Version 10.0.22000.1098]
(c) Microsoft Corporation. All rights reserved.

C:\Users\gaojo>aws configure
AWS Access Key ID [*****FUQA]: AKIA2RG67HETQRLRWXHL
AWS Secret Access Key [*****bJvF]: W6MLLz6ZcF6NRP6f67DMK4bGE7Wb3DAz8UVEb9cat
Default region name [None]:
Default output format [None]:

C:\Users\gaojo>pip install boto3
Requirement already satisfied: boto3 in c:\users\gaojo\appdata\local\programs\python\python311\lib\site-packages (1.26.6)
Requirement already satisfied: botocore<1.30.0,>=1.29.6 in c:\users\gaojo\appdata\local\programs\python\python311\lib\site-packages (from boto3) (1.29.6)
Requirement already satisfied: jmespath<2.0.0,>=0.7.1 in c:\users\gaojo\appdata\local\programs\python\python311\lib\site-packages (from boto3) (1.0.1)
Requirement already satisfied: s3transfer<0.7.0,>=0.6.0 in c:\users\gaojo\appdata\local\programs\python\python311\lib\site-packages (from boto3) (0.6.0)
Requirement already satisfied: python-dateutil<3.0.0,>=2.1 in c:\users\gaojo\appdata\local\programs\python\python311\lib\site-packages (from botocore<1.30.0,>=1.29.6->boto3) (2.8.2)
Requirement already satisfied: urllib3<1.27,>=1.25.4 in c:\users\gaojo\appdata\local\programs\python\python311\lib\site-packages (from botocore<1.30.0,>=1.29.6->boto3) (1.26.12)
Requirement already satisfied: six>=1.5 in c:\users\gaojo\appdata\local\programs\python\python311\lib\site-packages (from python-dateutil<3.0.0,>=2.1->botocore<1.30.0,>=1.29.6->boto3) (1.16.0)

C:\Users\gaojo>
```

It will ask for the access key and the secret key along with the region that you are using.

To begin uploading in the bucket, I am connected to AWS CLI and using Pycharm which allows me to use boto3 from python. I will import boto3; boto3 allows you to build applications on top of AWS S3 and many other services on AWS.

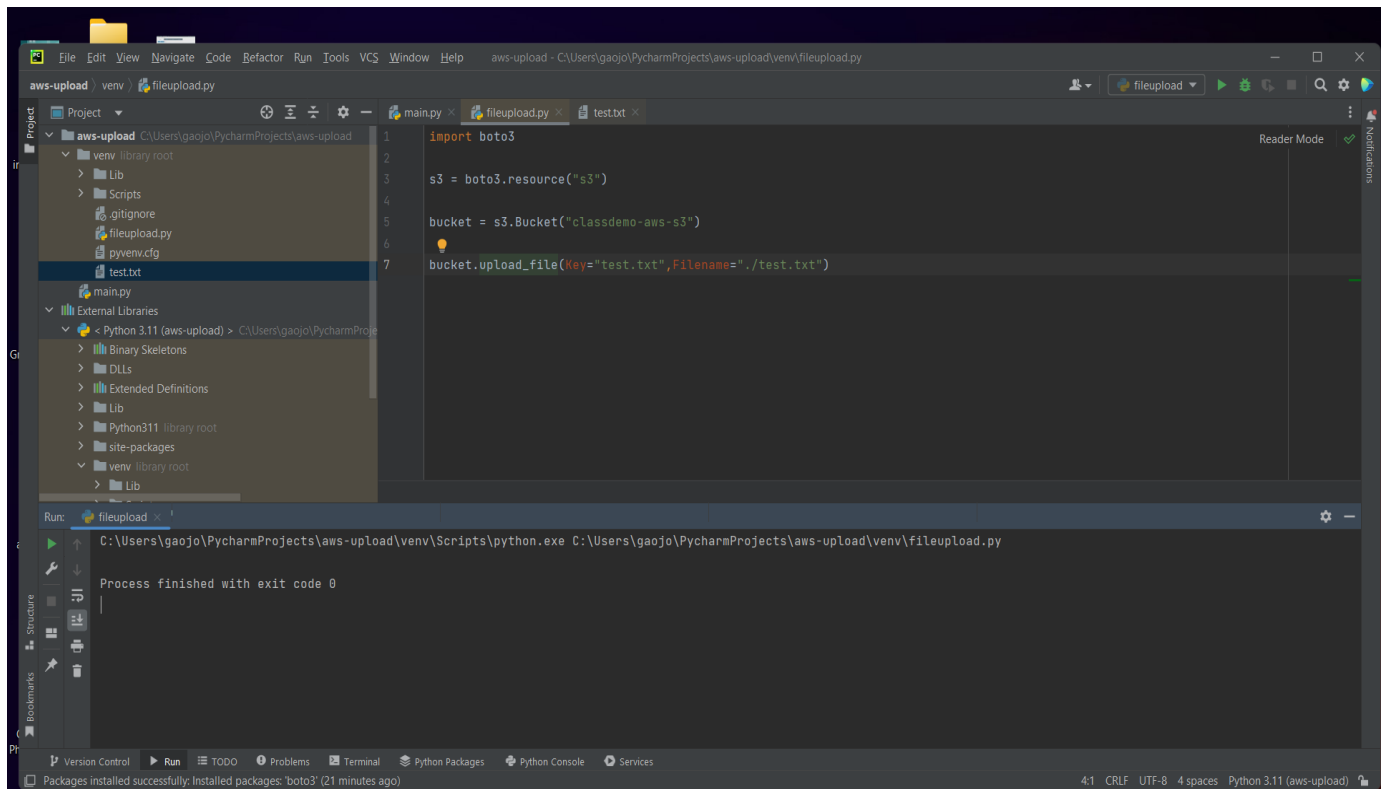
Next I need to call my bucket using

Bucket = s3.Bucket("name of bucket")

To upload:

Bucket.upload_file(Key="name of file uplaoding",Filename= "./location")

This is the full prototype:



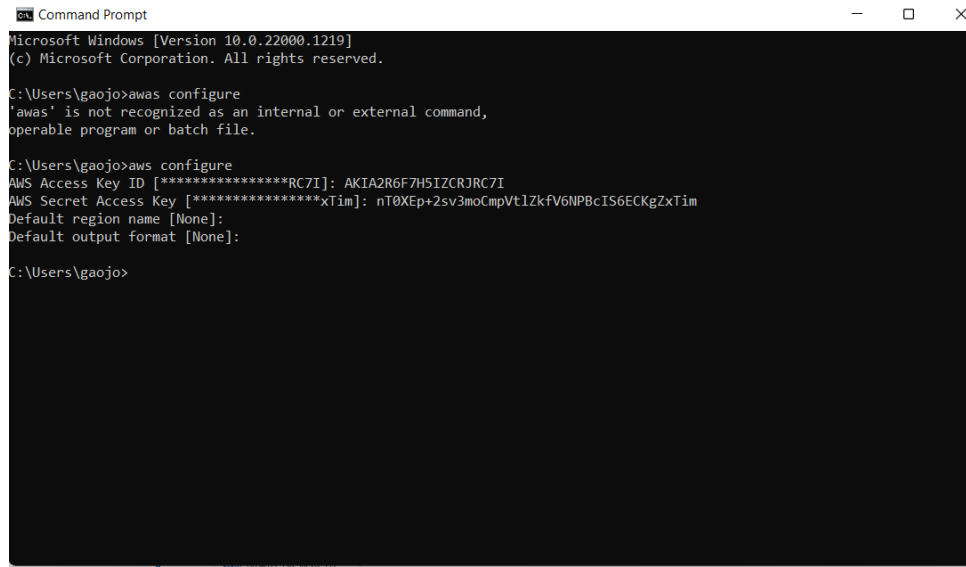
Demo #2 : Demonstrating downloading object use case

In this second demo, I demonstrated downloading an image from my AWS S3 bucket to my domain user; downloading object use case. In my bucket, I have already downloaded an image which of ice age and the goal is to download that.

The screenshot shows the AWS S3 console interface. The left sidebar contains navigation options for 'Amazon S3' (Buckets, Access Points, Object Lambda Access Points, Multi-Region Access Points, Batch Operations, Access analyzer for S3) and 'Storage Lens' (Dashboards, AWS Organizations settings, Feature spotlight, AWS Marketplace for S3). The main content area displays the 'aws-class-demo' bucket with tabs for 'Objects', 'Properties', 'Permissions', 'Metrics', 'Management', and 'Access Points'. The 'Objects' tab is active, showing a list of two objects: 'iceage.png' (754.0 KB, Standard storage class) and 'test.txt' (15.0 B, Standard storage class). A blue arrow points to the 'iceage.png' object. The top of the console shows the AWS logo, a search bar, and the breadcrumb 'Amazon S3 > Buckets > aws-class-demo'. The bottom of the console shows a footer with 'Feedback', 'Looking for language selection? Find it in the new Unified Settings', '© 2022, Amazon Web Services, Inc. or its affiliates.', 'Privacy', 'Terms', and 'Cookie preferences'. The Windows taskbar at the very bottom shows the date and time as 8:25 PM 12/8/2022.

	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	iceage.png	png	December 8, 2022, 19:33:28 (UTC-06:00)	754.0 KB	Standard
<input type="checkbox"/>	test.txt	txt	December 8, 2022, 19:31:33 (UTC-06:00)	15.0 B	Standard

Once again, we are logging in our command prompt to get access into the bucket with the provided access key and secret key



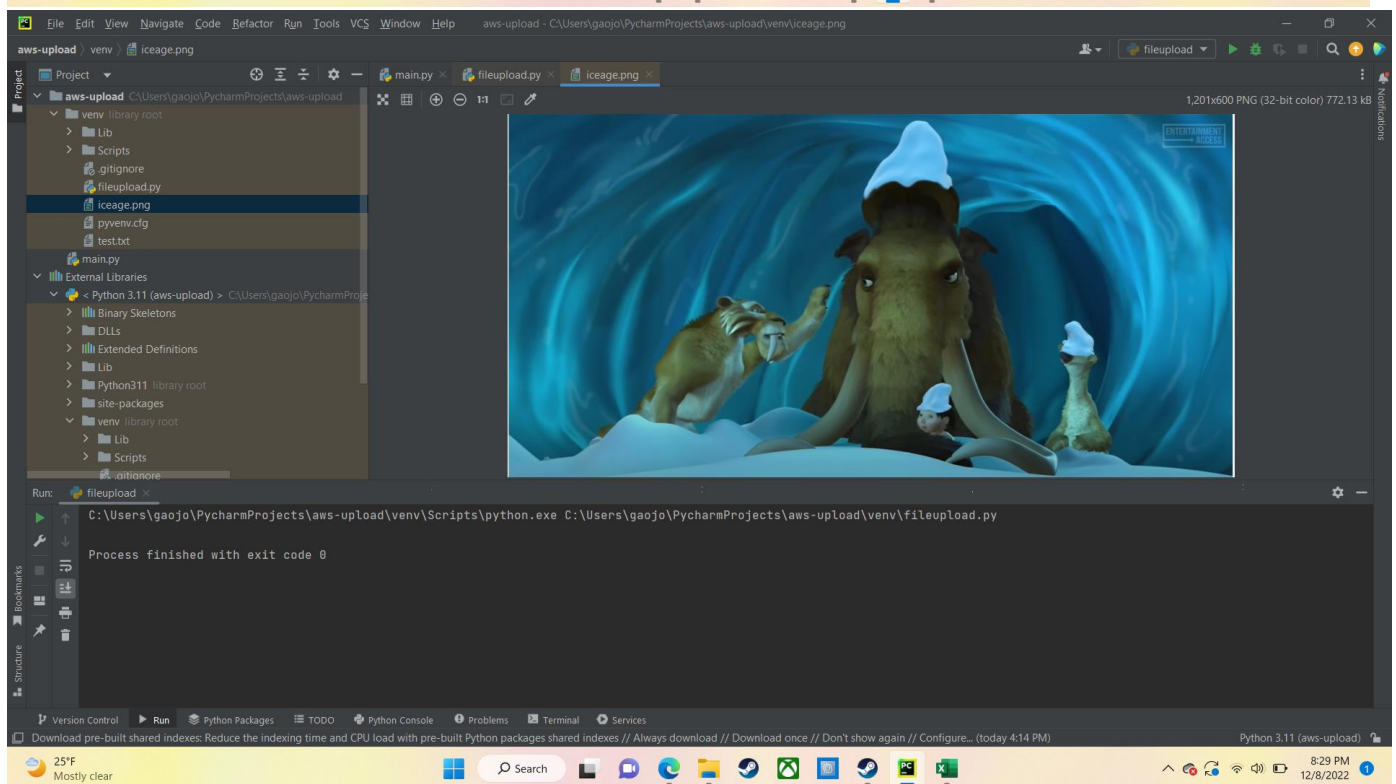
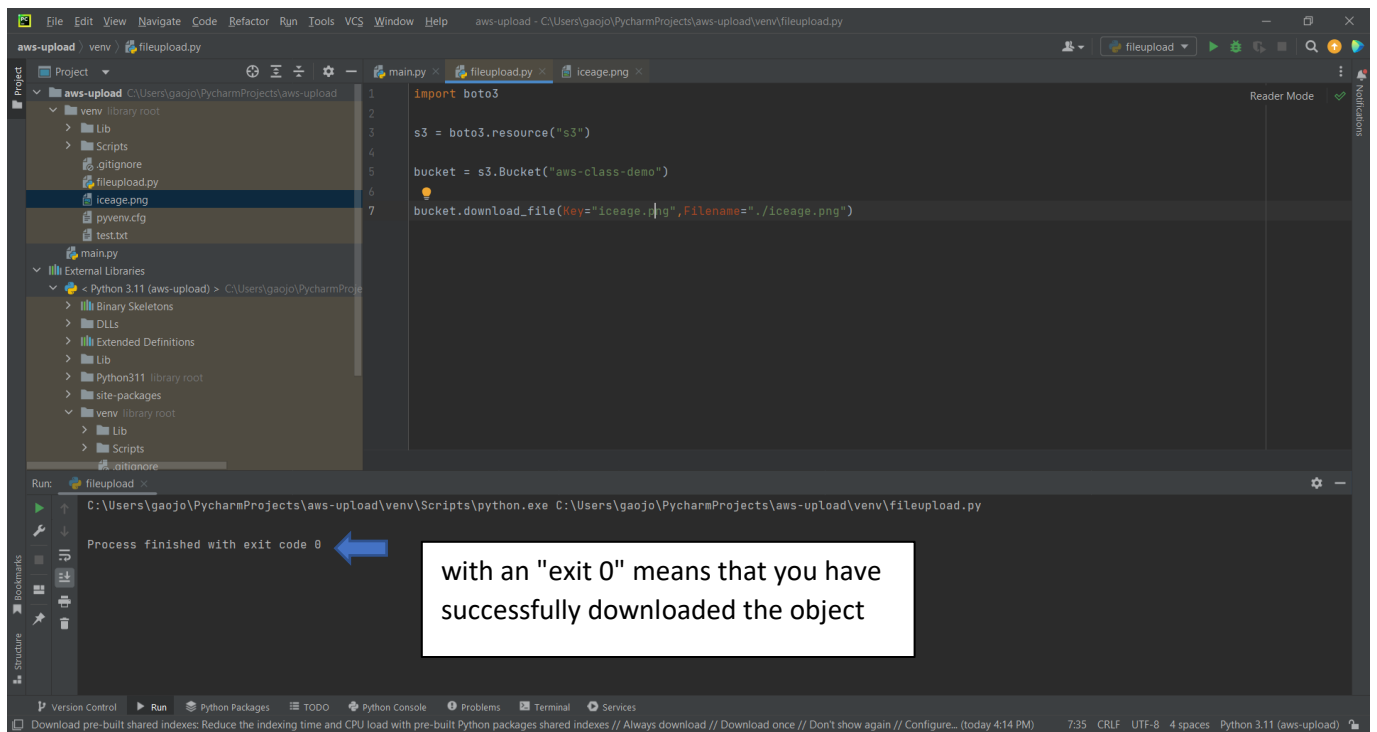
```
Command Prompt
Microsoft Windows [Version 10.0.22000.1219]
(c) Microsoft Corporation. All rights reserved.

C:\Users\gaojo>aws configure
'aws' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\gaojo>aws configure
AWS Access Key ID [*****RC7I]: AKIA2R6F7H5IZCRJRC7I
AWS Secret Access Key [*****xTim]: 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
Default region name [None]:
Default output format [None]:

C:\Users\gaojo>
```

After logging in, I import boto3 which is the SDK for python language that allows me to manage AWS services.



Resources:

[AWS S3 MultiPart Upload with Python and Boto3 | by Niyazi Erdoğan | Medium](#)

[Uploading objects - Amazon Simple Storage Service](#)

[How To Write A File Or Data To An S3 Object Using Boto3 - Stack Vidhya](#)

[Upload and Download files from AWS S3 Bucket using python 2022 - Bing video](#)