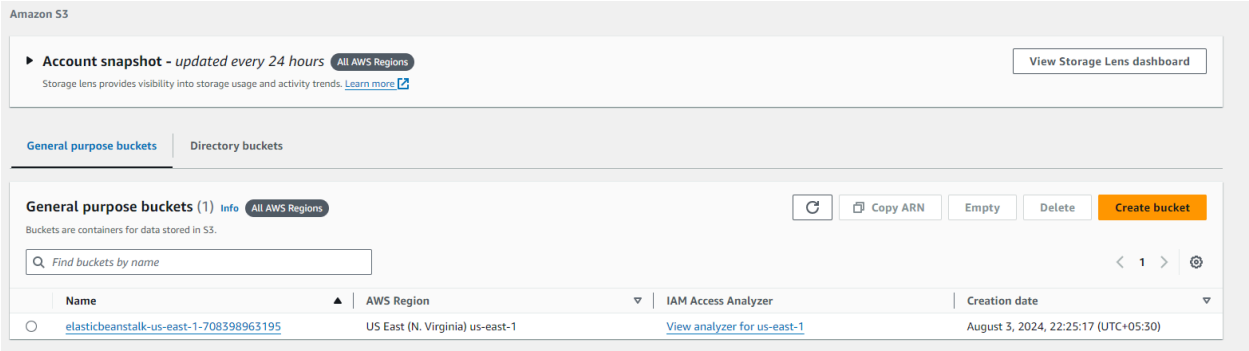
# Experiment No:12

**Aim:** To create a Lambda function which will log “An Image has been added” once you add an object to a specific bucket in S3

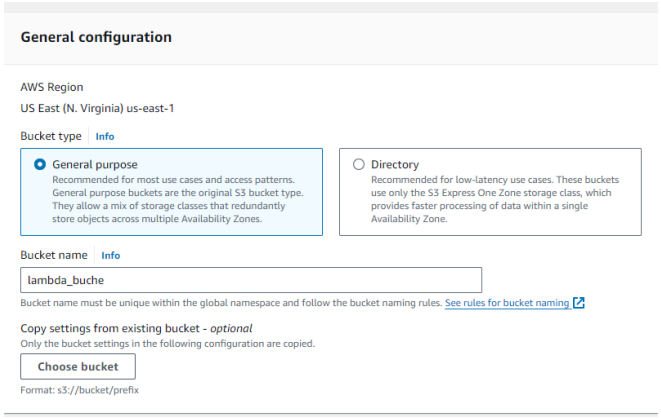
## Steps :

1. **Creating the lambda function:**

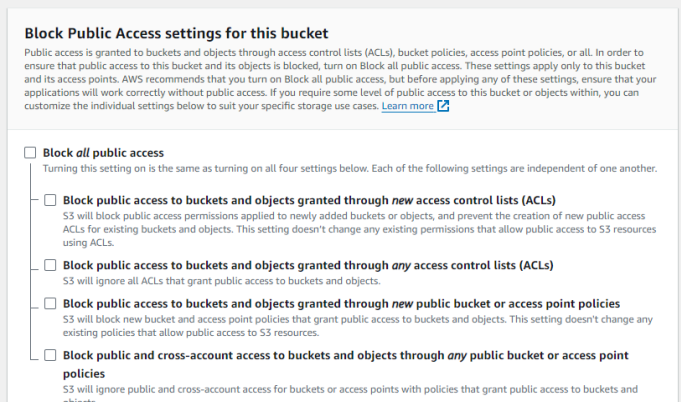
Go to AWS ACADEMY. Now search and open S3 from services. Then click on create bucket.



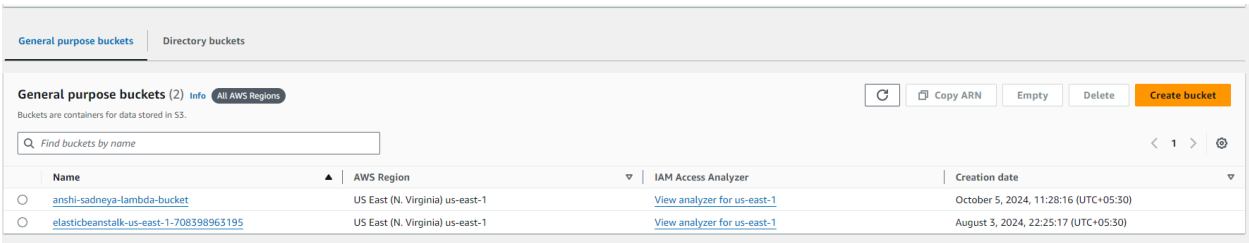

2. Now Give a name to your Bucket.Here I have given the name as lambda_buche.



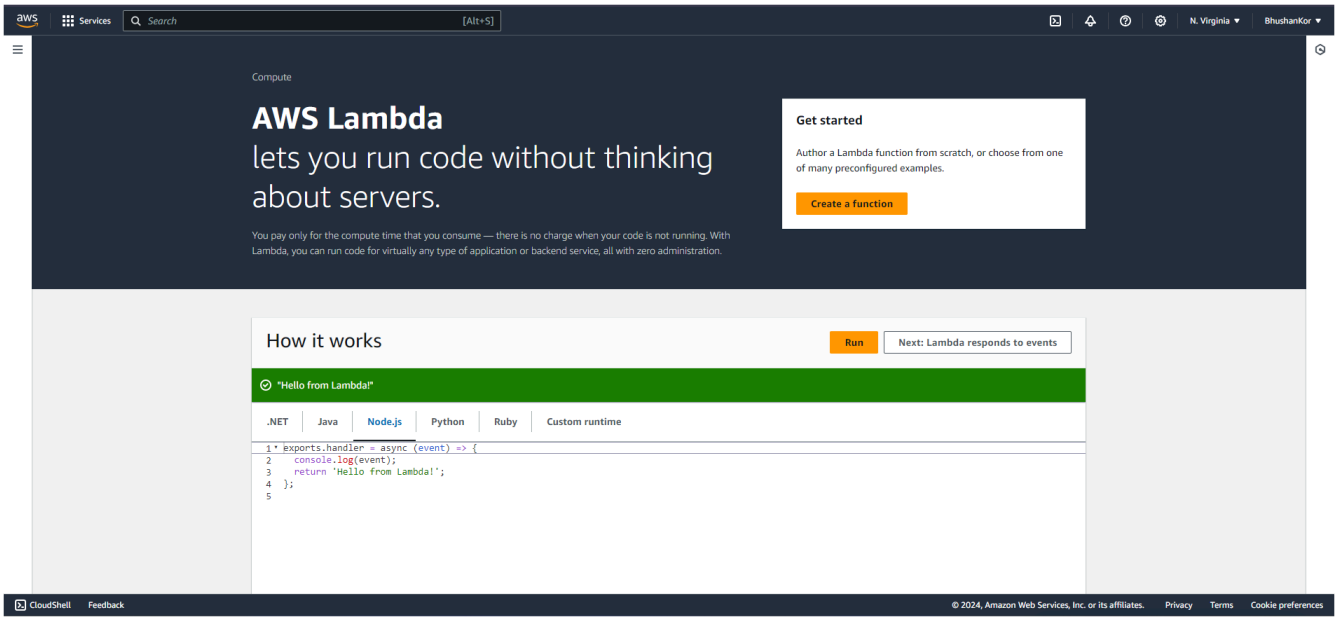

3. then remove the Block public access and keep other settings default.



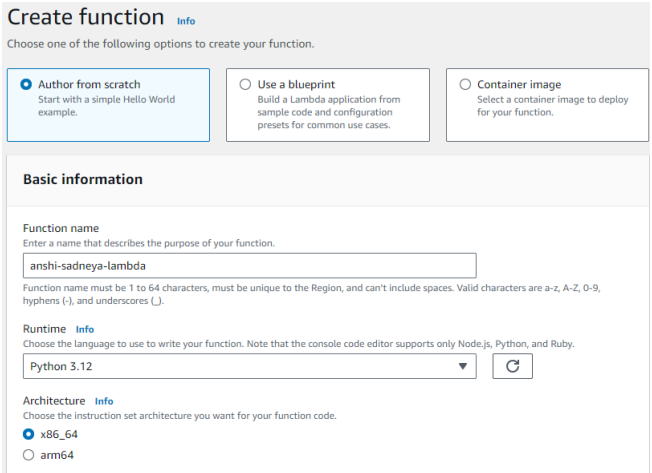

4. Thus,the S3 bucket was created successfully.



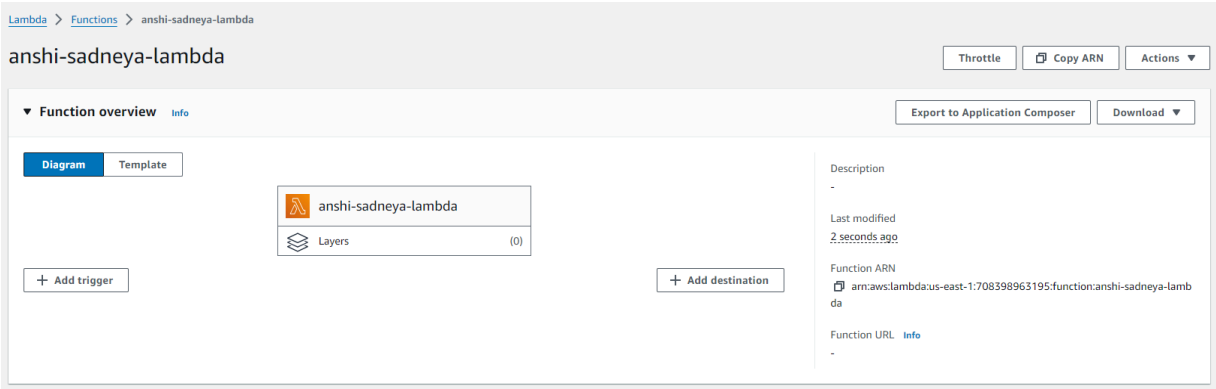

5. Search and Open lambda console and click on create function button.



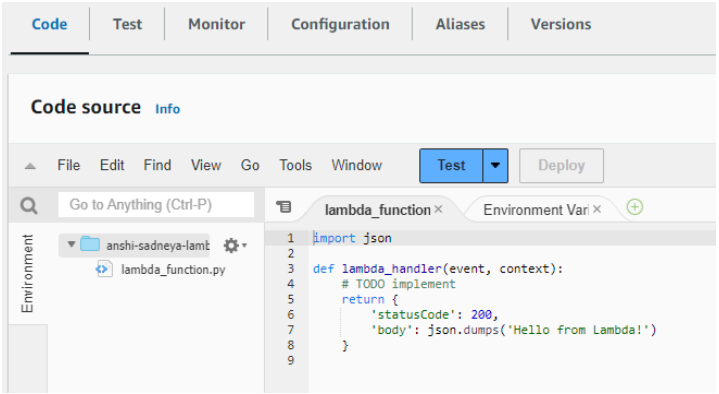

6. Now Give a name to your Lambda function, Select the language to write your function.Here I have chosen python3.12, Architecture as x86, and Execution role to Create a new role with basic Lambda permissions.Note that the console code editor supports only Node.js, Python, and Ruby



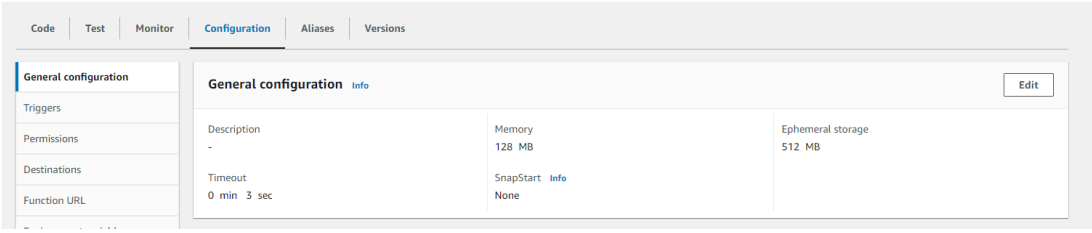

7. Thus the Lambda function was created successfully.



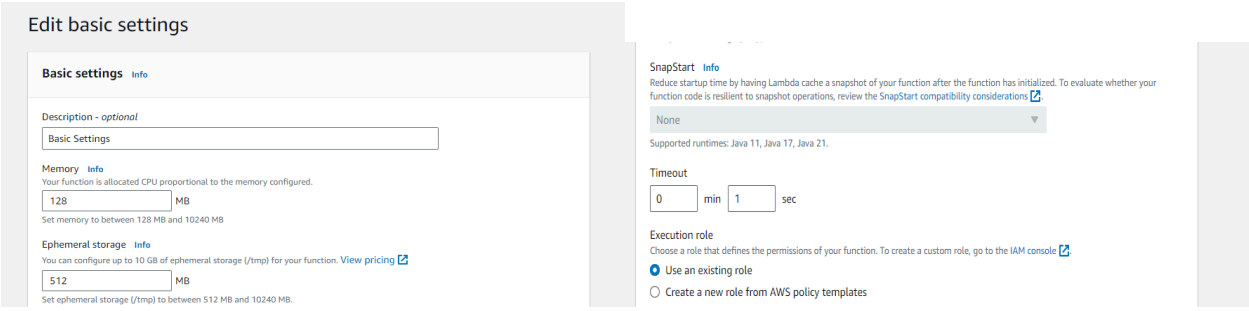

8. Then Go into the code section.You will see some default code there.



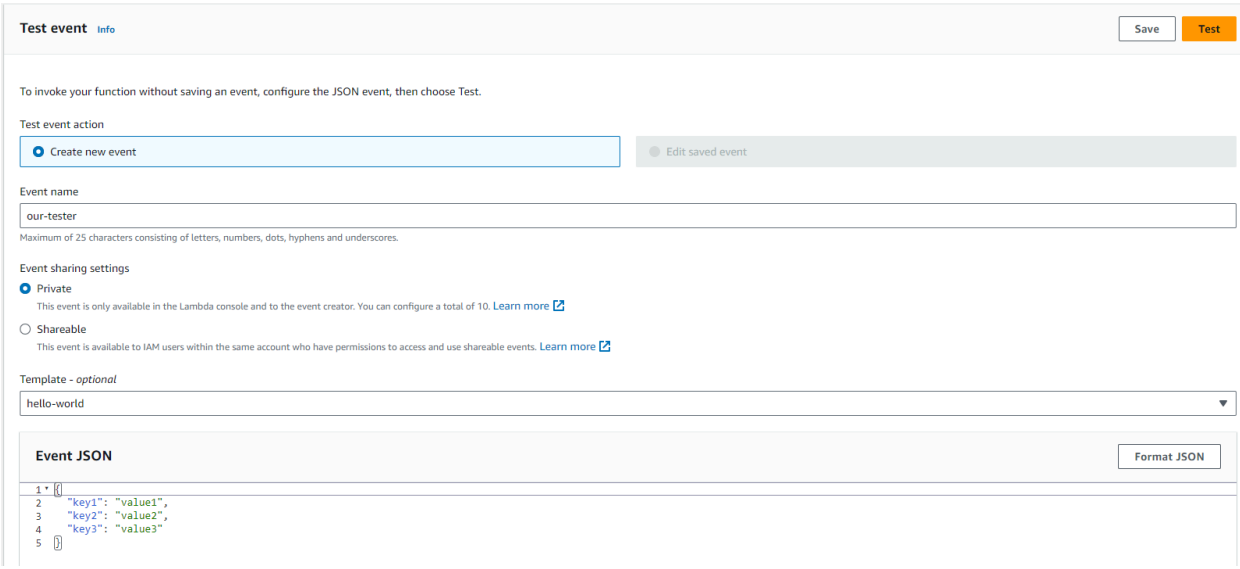

9. To Edit the basic settings go to configuration then click on edit setting.



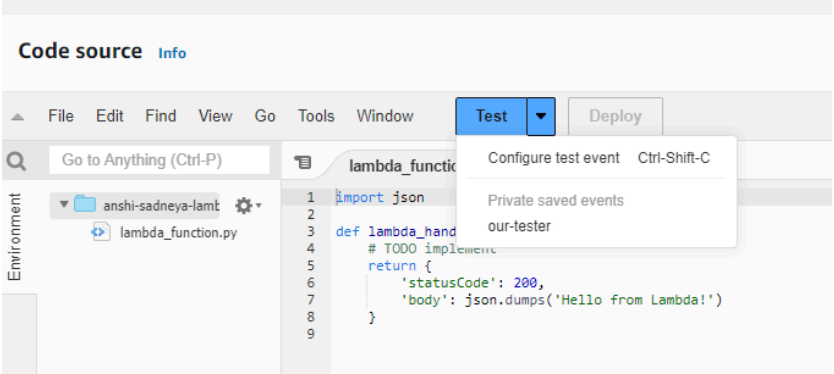

10. Here,enter a description which is optional and change Memory and Timeout. I've changed the Timeout period to 1 sec.



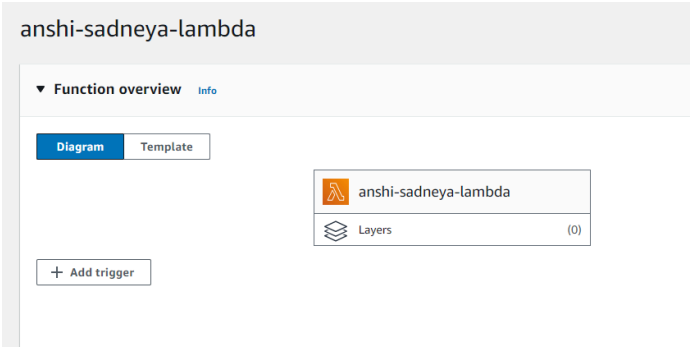

11. Now Click on the Test then select Create a new event, give a name to the event.Here I have given name as 'our-tester' and then select Event Sharing to private, and select s3 put template.



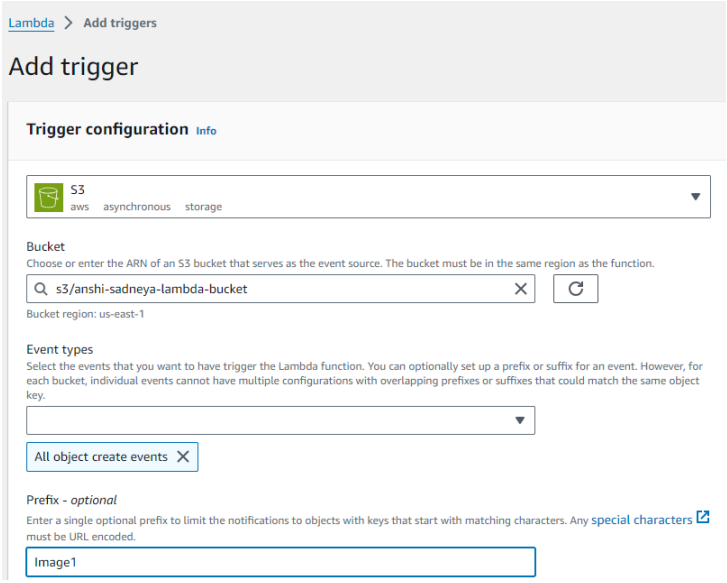

12. Now go to the Code section.Then click on the Test dropdown icon and select the event which we have created now('our-tester').



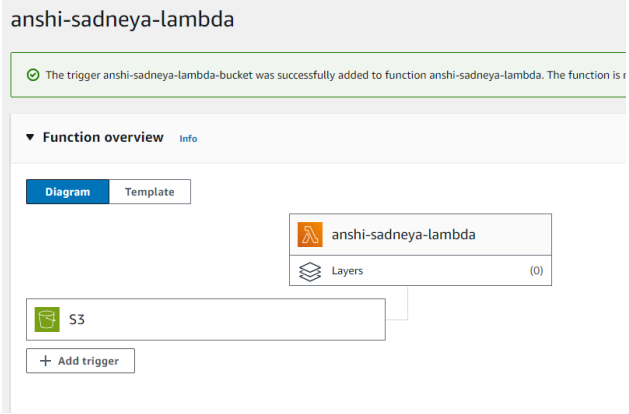

13. Now go into the Lambda function and then click on add tigger.



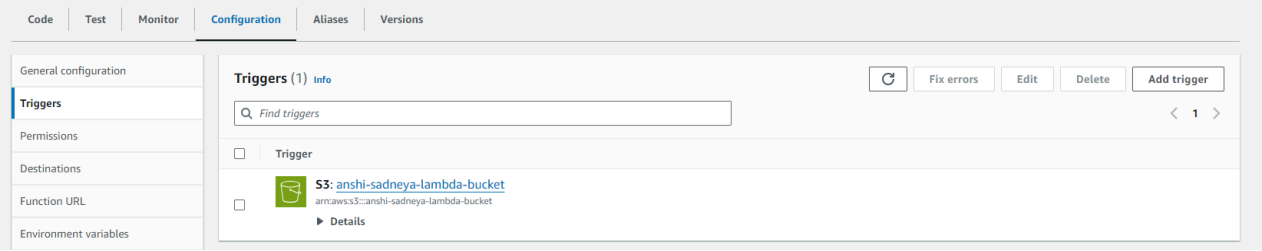
14. Now in the Trigger information.Select the source as S3.Then select the bucket which we have created now (lambda_buche), keep other things default and also you can add prefix to image.



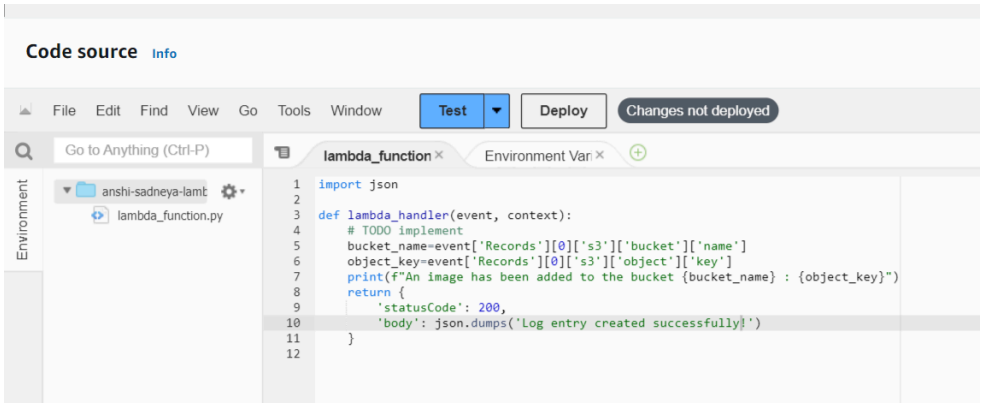

15. Thus,Trigger created successfully.




16. You can also check it in the configuration section.

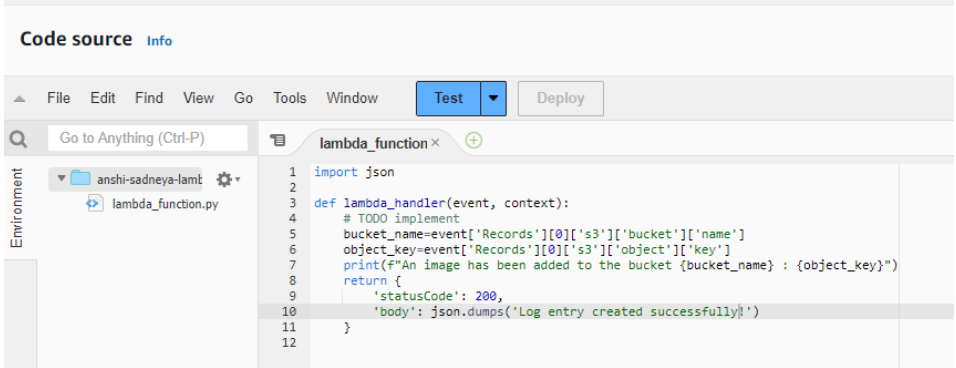


17. Now write a code which logs a message "Log entry crested successfully" when triggered.

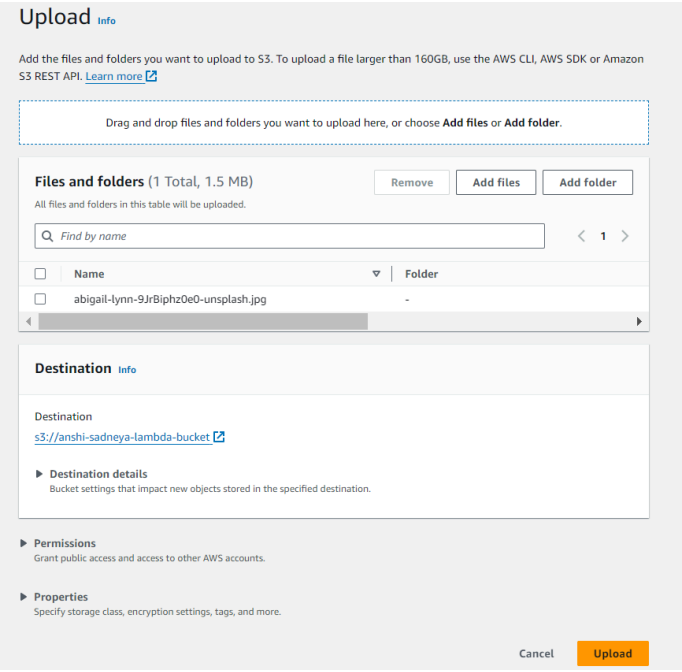



Here changes are not deployed.

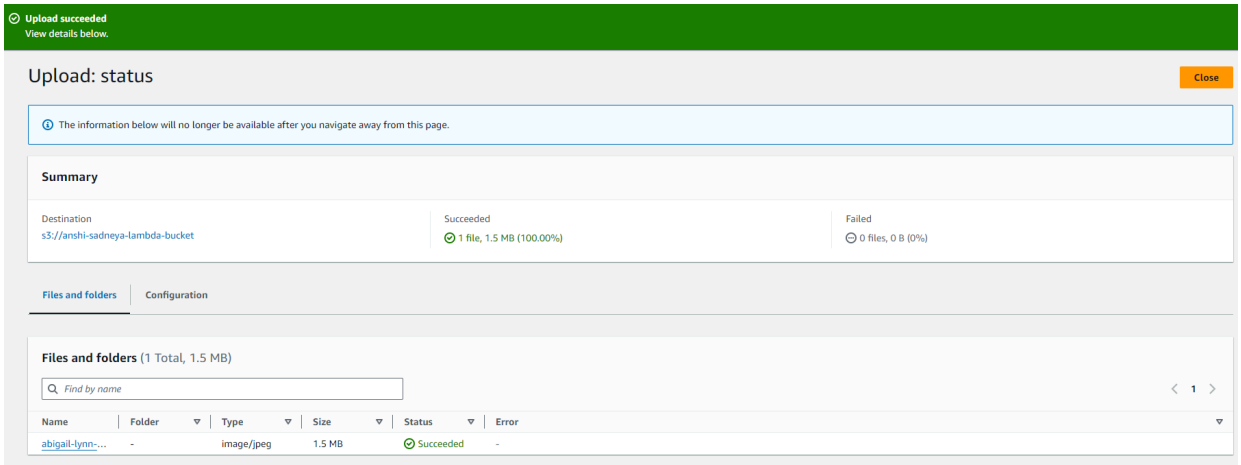
18. So now,Save the file by ctrl+s and then click on deploy.



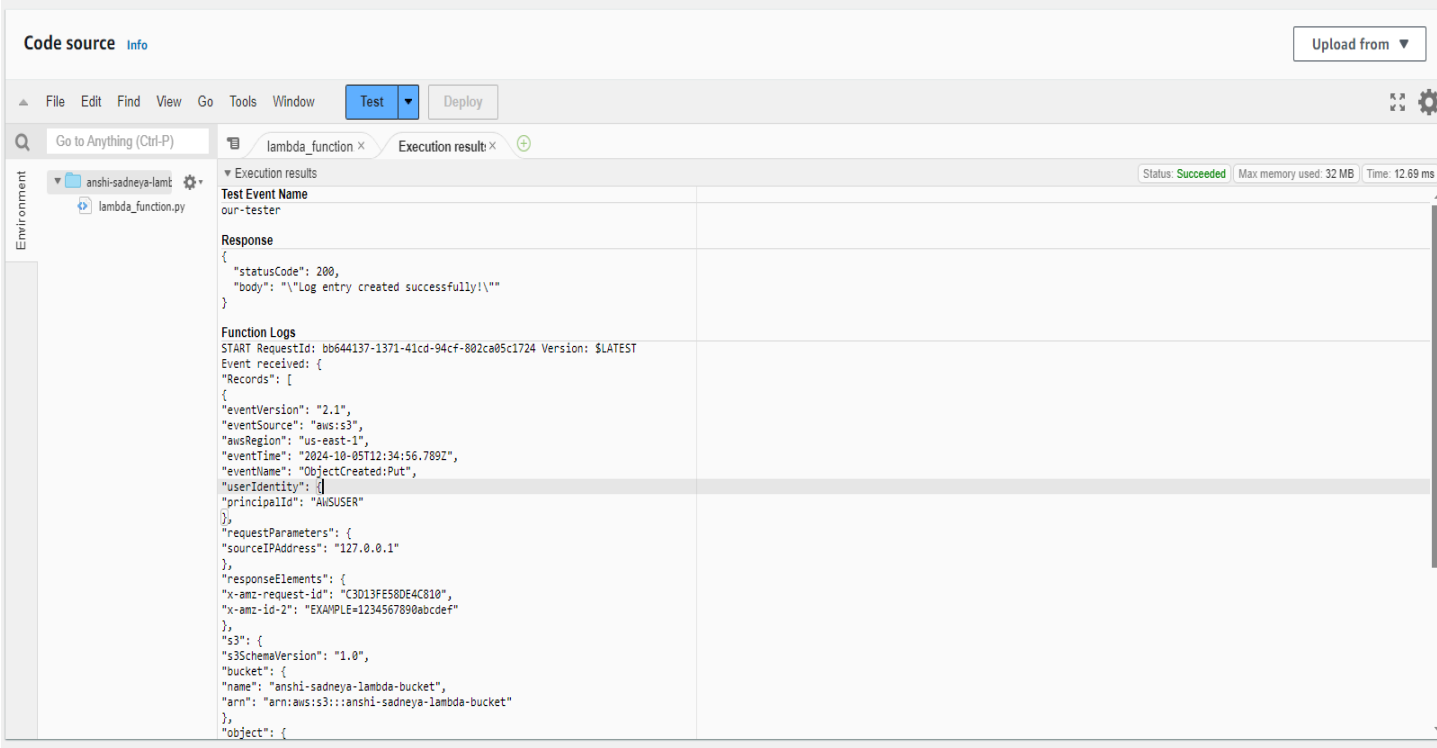

19. Go to S3 bucket,and there upload any image to the bucket.




20. Thus image uploaded successfully.

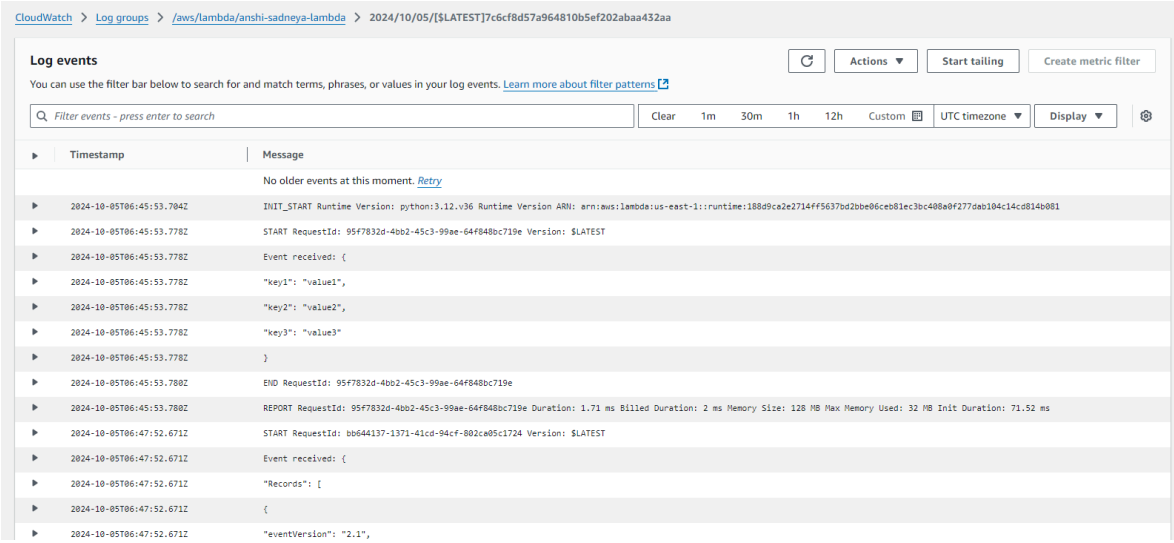



21. Now goto lambda function.Then click on test.This will give you log about the image that we have uploaded in S3 bucket.




**In response,It gives status 200 and also the message “Log entry created successfully” and also contains function Logs.**

22. Now go to cloudwatch.Then go into log groups.Inside that you will get the lambda function name that we have created click on it.Here,you will get a detailed log of events.




**Conclusion:** In this,we have created lambda function successfully.Then we have also created s3 bucket successfully.Then I have edited the setting by setting timeout for 1 sec and adding a description.Then created a event name ‘our-tester’.then selected that event for test. Then deployed it.Thus deployed successfully.Then we have added a trigger in which we added a s3 bucket which we created.Then we have added a print message.Then again deployed the code after uploading an image in a s3 bucket.This given a status code 200 in response with that message which we added in code.Then in cloudwatch it given detailed logs of it.