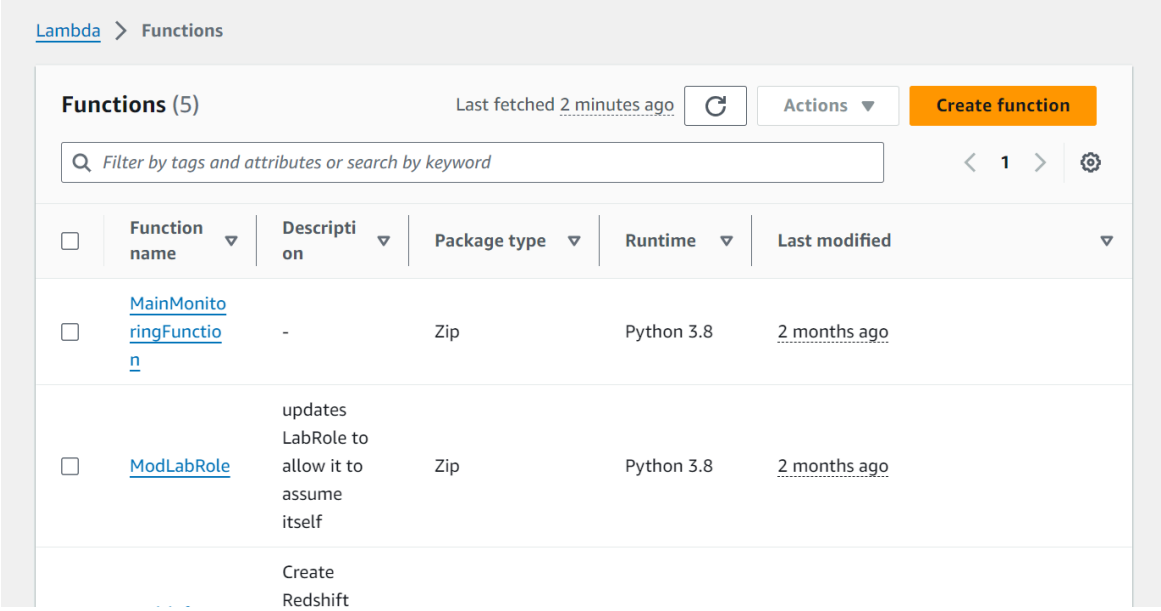
Experiment No:11

Aim: To understand AWS Lambda, its workflow, various functions and create your first Lambda functions using Python / Java / Nodejs.

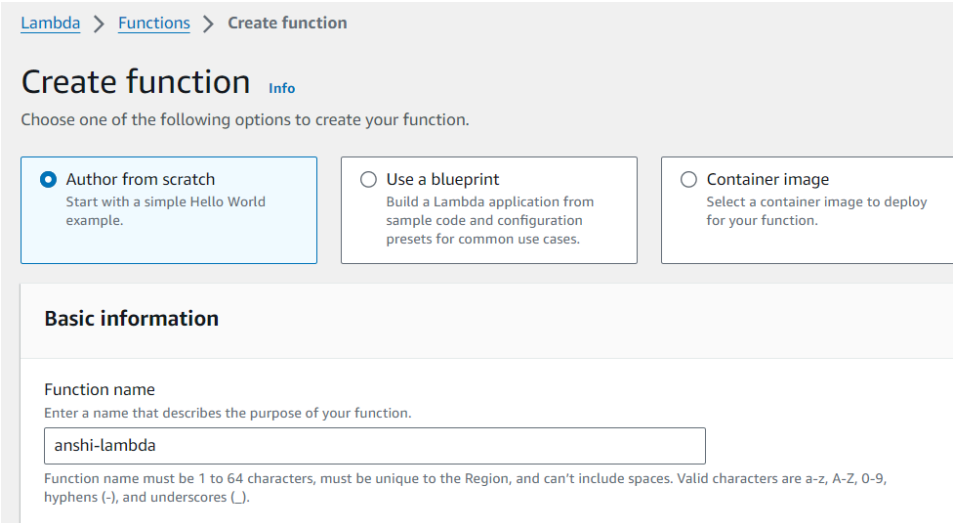
Steps:

1. Go to AWS ACADEMY.
2. **Create the lambda function:**

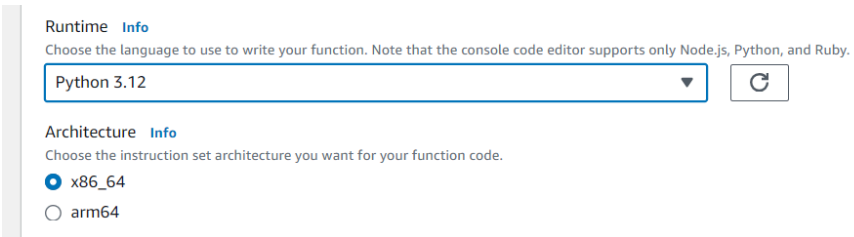
Firstly, Search lambda, then Open lambda and then click on create function button.



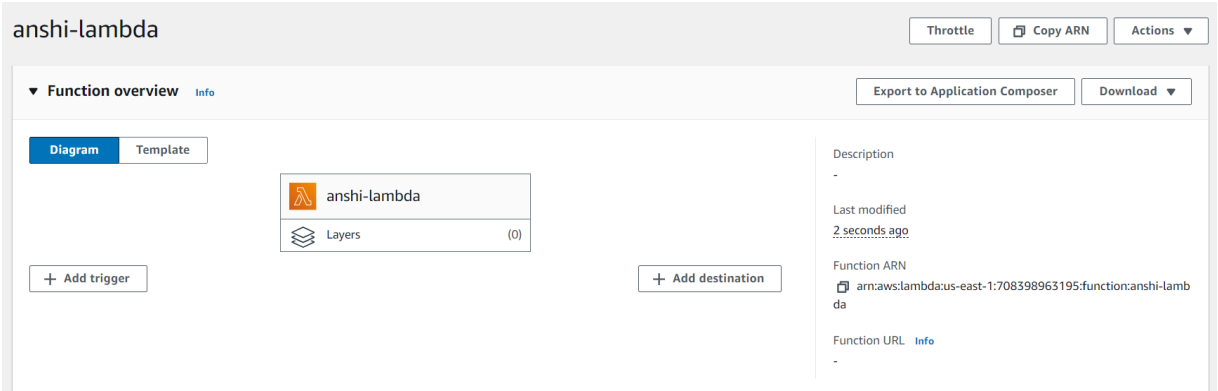
3. Now Give a name to your Lambda function,



4. Select the language to use to write your function. Note that the console code editor supports only Node.js, Python, and Ruby. So will select Python 3.12, Architecture as x86, and Exceution role to Create a new role with basic Lambda permissions.

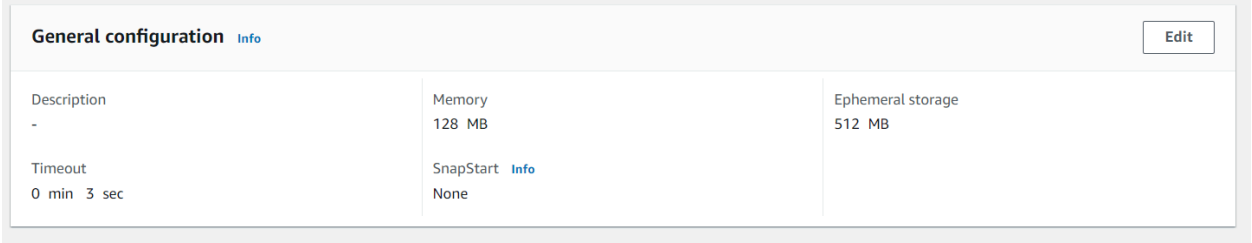


Thus the Lambda function was created successfully.

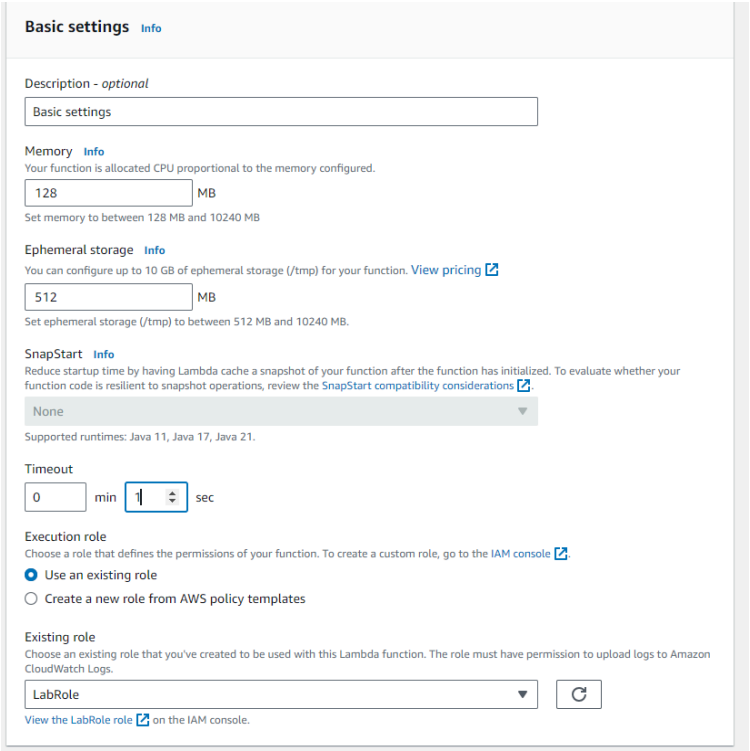


5. Then go to code section.

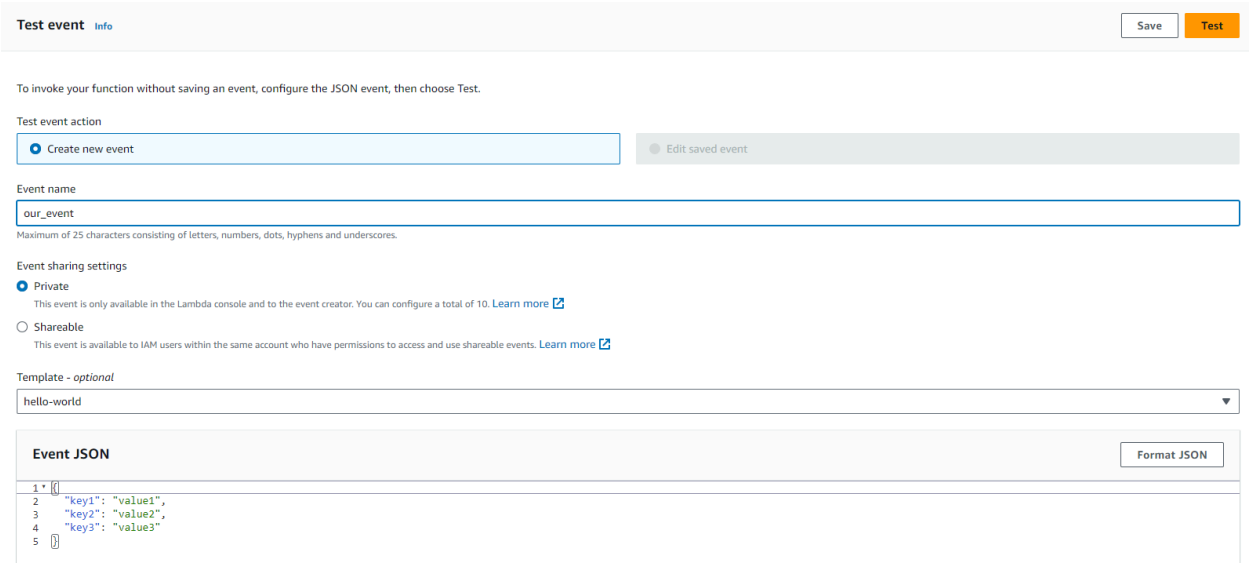
So to Edit the basic settings, go to configuration then click on edit.



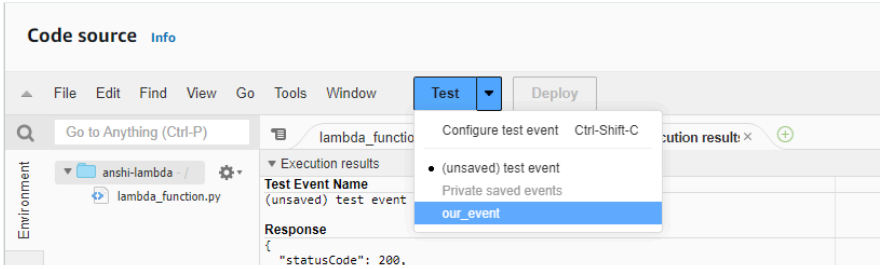
Now enter a description and change Memory and Timeout.Here, I've changed the Timeout period to 1 sec.



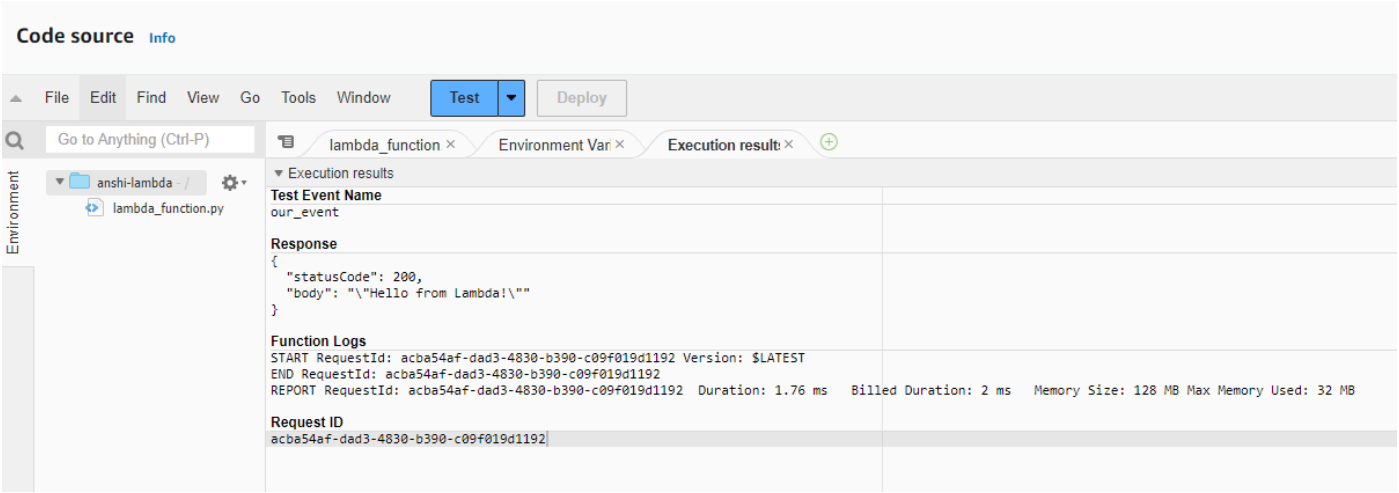
6. Now Click on the Test tab then select Create a new event, give a name to the event here i have given name as "our_event" and then select Event Sharing to private, and select hello-world template.



7. **Testing & Deployment:** Now In Code section select the created event (our_event) from the dropdown of test ,then click on test .

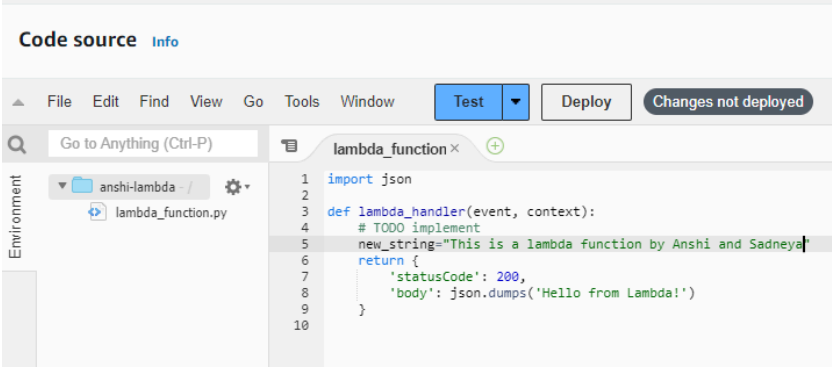


8. Now you will see the following output.

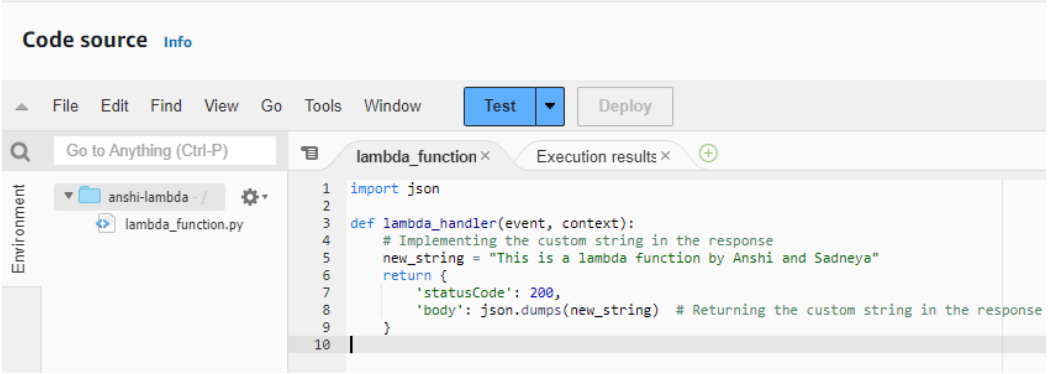


9. **Making changes**

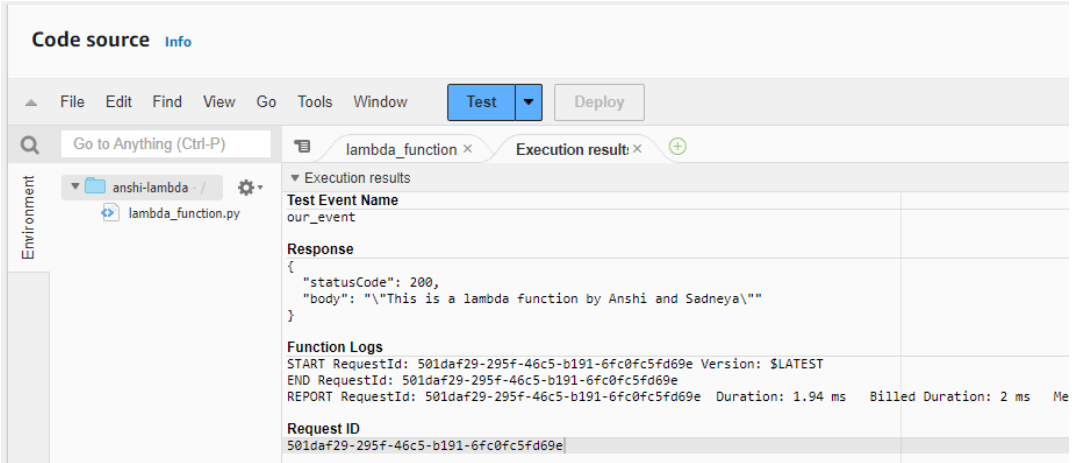
You can edit your lambda function code.Here I have created a new string name “new_string” and assigned a string to it.



Now save it by ctrl+s and then click finally on deploy to deploy the changes.



10. **Testing and redeploying changes** Now click on the test and observe the output. Thus Output gives status code 200. Thus deployment is done successfully.



Conclusion: In this experiment, we have successfully created an AWS Lambda function. After we have chosen the python language for writing the function. Then we edited the basic settings, including adjusting the timeout to 1 second.Then we tested it and finally deployed it.Thus it got deployed successfully.Additionally, we modified the Lambda function's code and redeployed it to observe the changes in real-time.This provided information about simplicity of AWS Lambda in creating serverless application.