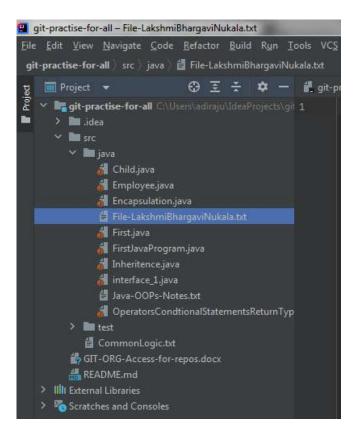
Name: Lakshmi Bhargavi Nukala Email: bhargavi.aqua04@gmail.com Reg No: 222037 Hall Ticket No: 22063CDO117

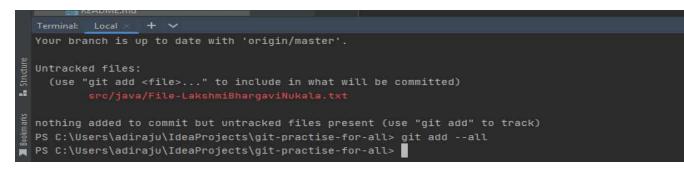
GIT:

Task-1

Add a new file with your name in IntelliJ



Add and Commit it to master branch



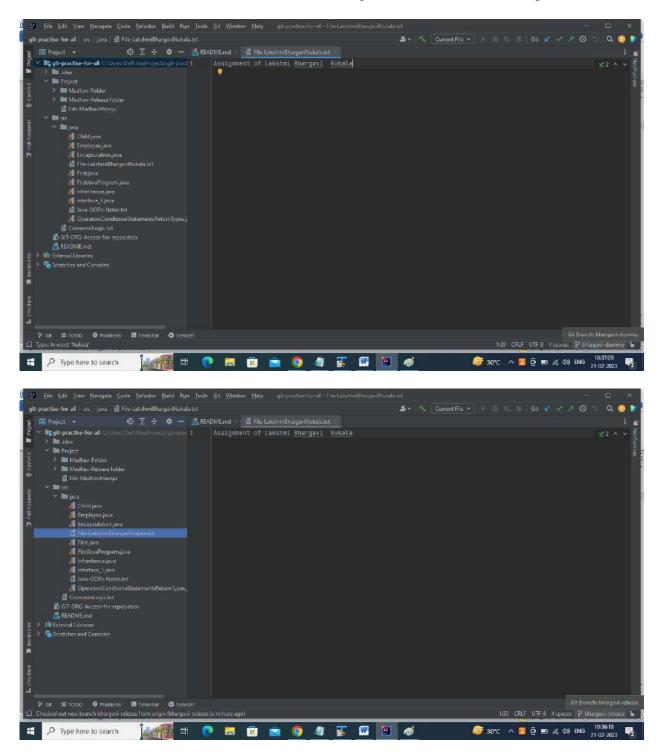
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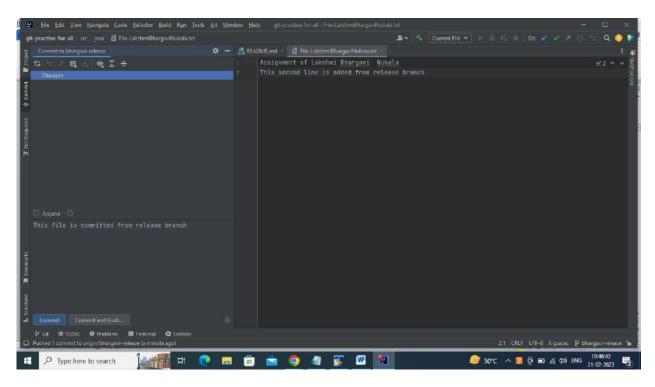
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GIT Task-2: Created two branches in GIT bhargavi-dummy bhargavi-release

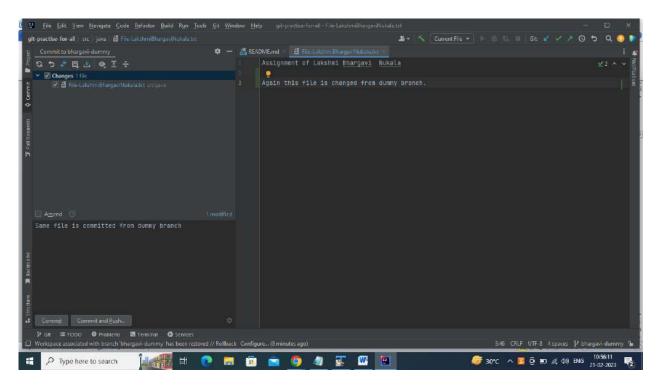
In IntelliJ, check out the code from the branches using GIT Fetch and GIT Pull options.





Change the file File-LakshmiBhargaviNukala.txt in bhargavi-release branch, commit and push.

Now switch the branch to bhargavi-dummy and without pulling the code, change the same file and commit and push.



Create a Pull Request (PR) from bhargavi-dummy branch to bhargavi-release branch.

columb	uskvmk / git-practise-for-all Public	⊙Watch 6 + ¥ Fork 6 +	🛱 Star 0 🔹
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100 A 100 A	new pull request by comparing changes across two branches. If you need to, you can also compare across forks.		
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	Attach files by dragging & dropping, selecting or pasting them.		1

A merge request to reslove conflicts is displayed.

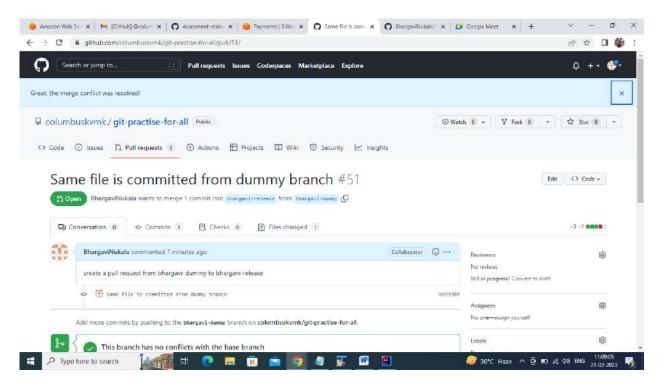
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	Add more commits by pushing to the bhargavi-dumny branch on columbuskvmk/git-practise-for-all.			Assignees No one—assign yourself	ø
}~	This branch has conflicts that must be resolved Use the web editor or the command line to resolve conflicts.	Resolve conf	licts	Labels None yet	动
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Resolve conflicts and commit merge

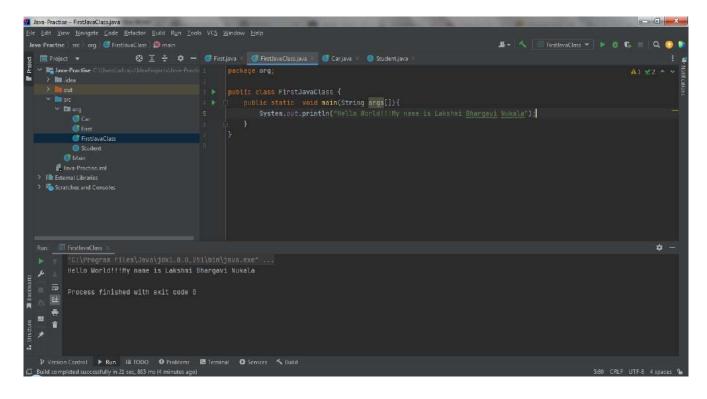
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Merge Conflicts are resolved.

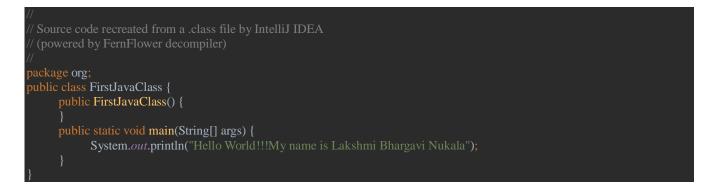


Java Task 1:

Run a simple Java application that prints our name



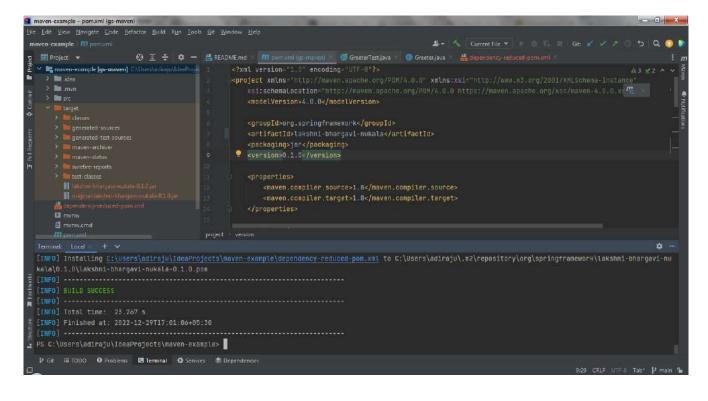
Task-2: Byte code is in the .class file created and captured it

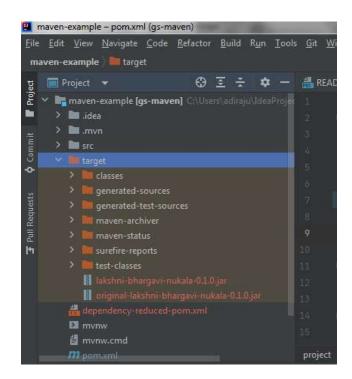


Maven:

Create a maven project with artifact id as your name and generate jar/war file In pom.xml file, change the artifact-id to your name and run the command mvn clean install

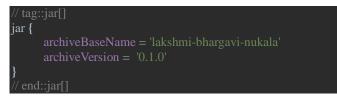
<groupId>org.springframework</groupId> <artifactId>lakshni-bhargavi-nukala</artifactId> <packaging>jar</packaging> <version>0.1.0</version>





Gradle:

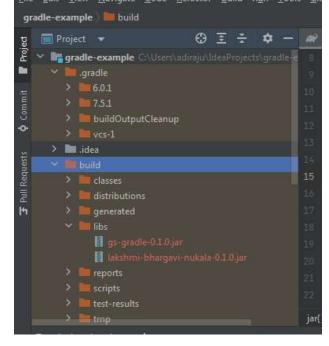
Create a gradle project with artifact-id as your name and generate jar/war artifact. In build.gradle file, change the artifact-id name



Build gradle project using the command gradle build

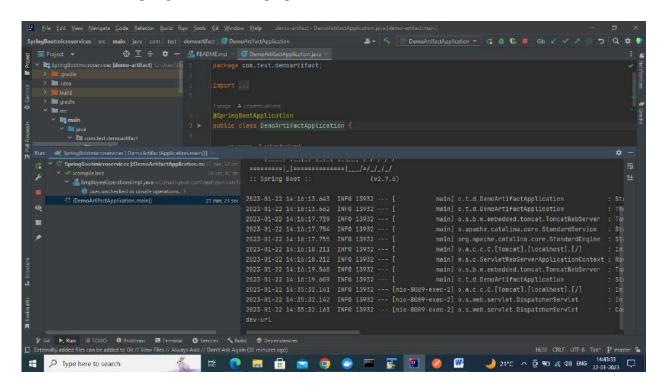
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<u>File Edit View Navigate Code Refactor Build Run Tools Git</u>



SpringBoot microservices:

Task 1: Run the SpringBoot in the repo provided



Task 2: Verify the following Urls on Postman

http://localhost:8089/Employee/welcome
--

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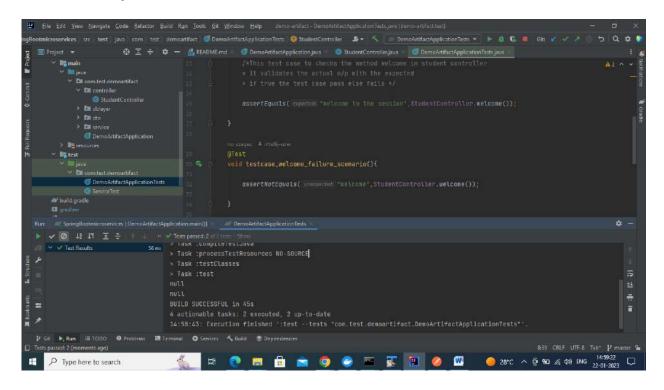
http://localhost:8089/Employee/getAllEmployees

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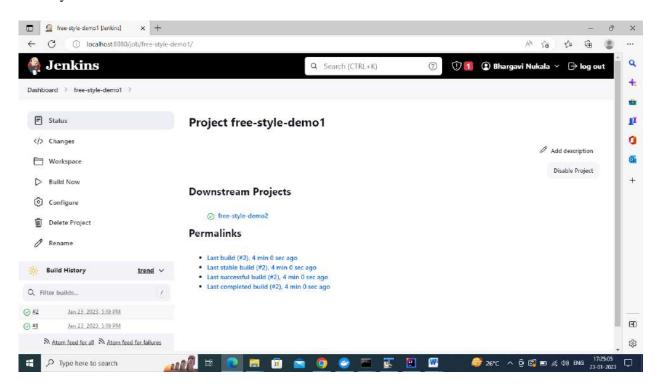
http://localhost:8089/Employee/getEmployeeDetails -- POST method , passed empid=13 in body

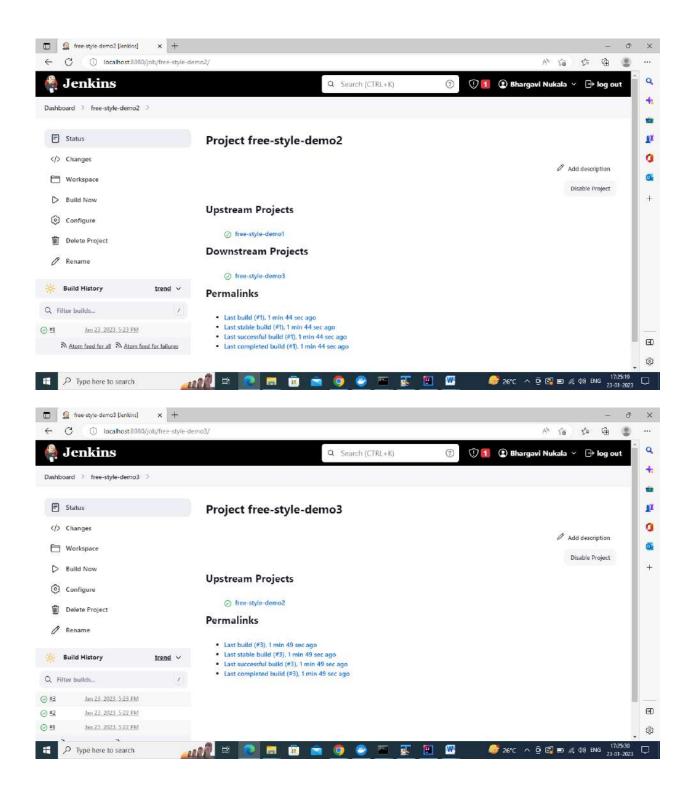
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Task 3: Run any test-cases

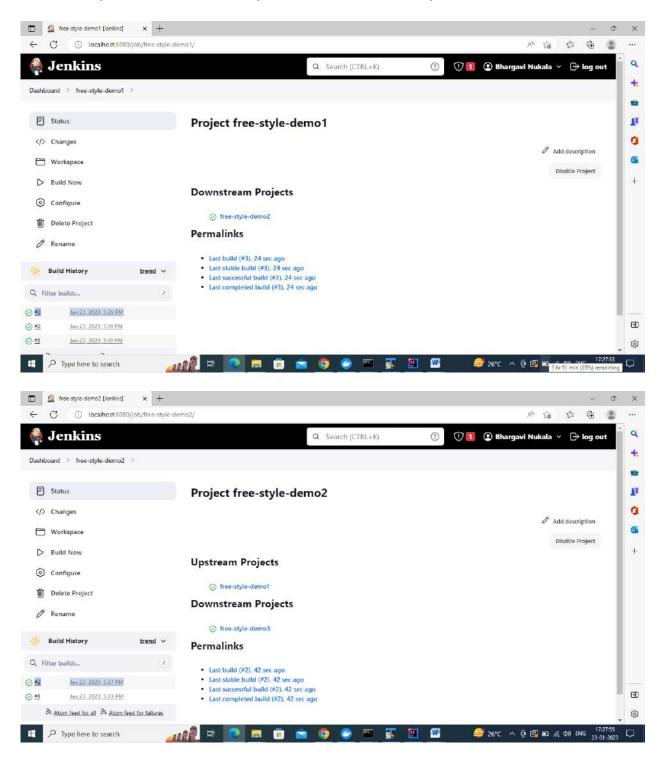


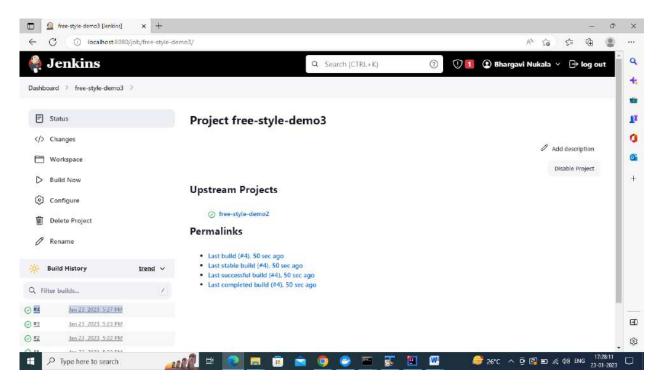
Jenkins project: Task 1: In jenkins create 3 free style projects, free-style-demo1 free-style-demo2 free-style-demo3





Once free-style-1 is built then free-style-demo2 and later free-style-demo3 should build.





Task 2:

Create a new repo in your login and checkin the maven project.

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Configure a Maven project from GIT in Jenkins. Configure credentials of Git as username=GIT username and password=GIT token, ID is some random name.

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Download ngrok from https://ngrok.com/download

Extract to a folder.

From the cmd, go to the extracted folder and run the command ngrok http 8080

Copy the Forwarding entry in Command Prompt

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In Git Hub Maven project, under Settings tab ->Click on WebHook and add a new WebHook. Payload URL => URL copied from ngrok/github-webhook

C @ github.com/BhargaviNukala/	aven-example/settings/hooks/400024595	01	合合	Ξſ	Q
🕄 General	Webhooks / Manage webhook				
Access PR Collaborators	Settings Recent Deliveries				
Moderation options	V We'll send a POST request to the URL below with details of any subscribed events. You can also spec	tify which data			
Code and automation	format you'd like to receive (JSON, x-www-font-unlencoded, etc). More information can be found in o documentation.	our developer			
P Branches	Payload URL *				
O Actions	+ https://456f-49-37-129-178.in.ngrok.io/github-webhook/				
🖧 Webhooks	Content type				
Environments	application/json 0				
🗟 Codespaces	Secret				
🗂 Pages					
Security	SSL verification				
() Code security and analysis	SSL verification By default, we verify SSL certificates when delivering payloads.				
Deploy keys	Enable SSL verification O Disable (not recommended)				
 Secrets and variables 					
Integrations	Which events would you like to trigger this webhook?				
88 GitHub apps	Just the push event.				

A new WebHook is added

		/maven-example/settings/hooks ••			
Search or jump to	gthub.com//bargaviNukala/maven-example/settings/hooks or jump to: ? Pull requests bases Codespaces Marketplace Explore A + • • • • • as successfully created. We sent a ping payload to test it out! Read more about it at https://docs.github.com/webhooks/#ping-event. X Nukala / maven-example Public O Issues 11 Pull requests Projects III Wiki © Security Iz Insights @ Settings Ad Webhooks allow external services to be notified when certain events happen. When the specified events happen, well send a POST request to each of the UKs you provide. Learn more in our Webhooks Guide. Note that is index to each of the UKs you provide. Learn more in our Webhooks Guide. test Delay is to each of the UKs you provide. Learn more in our Webhooks Guide. test Delay is index to each of the UKs you provide. Learn more in our Webhooks Guide. test Delay is index to each of the UKs you provide. Learn more in our Webhooks Guide. test Delay is index to each of the UKs you provide. Learn more in our Webhooks Guide. test Delay is index to each of the UKs you provide. Learn more in our Webhooks Guide. test Delay is index to each of the UKs you provide. Learn more in our Webhooks Guide. test Delay is index to each of the UKs you provide. Learn more in our Webhooks Guide. test Delay is index to each of the UKs you provide. Learn more in our Webhooks Guide. test Delay is index to each of the UKs you provide. Learn more in our Webhooks Guide. test Delay is index to each of the UKs you provide. Learn more in our Webhooks Guide. test Delay is index to each of the UKs you provide. Learn more in our Webhooks Guide. test Delay is index to each of the UKs you provide. Learn more in our Webhooks Guide. test Delay is index to each of the UKs you provide. Learn more in our Webhooks Guide. test Delay is index to each of the UKs you provide. Learn more in our Webhooks is				
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BhargaviNukala / maven-	example P	ublic	Q Pin	₩ Fork 0 -	- ☆ Star 0
Code 🕑 Issues 🎵 Pull requ	uests 🗄 Pro	ple/settings/hooks issues Codespaces Marketplace Explore requests issues Codespaces Marketplace Explore wood to test it out! Read more about it at https://docs.github.com/webhooks/#ping-event.			
🕲 General		Webhooks		Add webhook	
Access		Webbooks allow external services to be notified when certain	events happen. When the specified events	Add webbook When the specified events happen, we'll send s'Guide. Eck Delete	
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Make a change in the project and commit and push the changes to the repo

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If we check in the GitHub WebHooks, a new entry for the push can be seen.

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BhargaviNukala / maven-ex	kample	ublic 🛇 Pin 💿 Unwatch 1 👻 Fork 0	-	☆	Star O	•
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And at the same time, we can see that a new build is triggered in Jenkins.

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Lambda:

Task -1: Create a Lambda function that prints your name.

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	nction name ter a name that describes the purpose of your function.							
	rint-name							
Use	e only letters, numbers, hyphens, or underscores with no sp	paces.						
	ntime Info nose the language to use to write your function. Note that I	the console code editor supports only Node js, Python, and Huby,						
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	pose the instruction set architecture you want for your fund	ictian code.						
0	x86_64							
0	arm64							
Pe	ermissions Info							
By s	default, Cambda W <mark>IR</mark> creater an execution role with permitsions to upload h	logs to Amazon CloudWatch Logs. You can customize this default role later when adding origgers.						
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Add a line printing your name in the code. Then Deploy the code.

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Now click on Test to configure a test event.

A test event is a JSON object that mocks the structure of requests emitted by AWS services to invoke a Lambda function. Use it to see the function's invocation result. To invoke your function without saving an event, configure the JSON event, then choose Test. Test event action Code source MyTest Maximum of 25 characters consisting of letters, numbers, dots, hyphens and underscores. Event sharing settings Miserent is null available to 14M users within the some account who have permissions to access and use shareable events. Learn more is Shareable Template - optional Mello-world	Configure test event	×			
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Event JSON Format JSON					

Then Click on Test to run the event and print your name.

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) The tes	st event MyTest was successful	iy saved.		×
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nyiranment	Print-name - / P	v Execution results Test Event Name RyTest	Status: Saccended Max memory used: 36 MB Time: 178 ms	
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		<pre>f "statusCode": 100, "body": "\"Hello from Lambdal\"" } Function Logs START RequestId: 51051007-4386-40f8-9144-81e88c0#863c Version: SLATEST Hello, This is Lakhni Bhorgavi Mukala END RequestId: 51051007-4386-40f8-9244-81e88c0#863c Duration: 1.78 ms RequestId: 51051007-4386-40f8-9244-81e88c0#863c Duration: 1.78 ms RequestId: 51051007-4386-40f8-9244-81e88c0#863c Duration: 1.78 ms</pre>	Billed Duration; 2 ms - Memory Size; 128 MB Max Memory Used; 36 MB	
		N0400510 51051007-4386-44f8-92a4-81288c0f863c		

Task-2:

Create an IAM user BhargaviNukala in AWS and give full access to Lambda permission to this user.

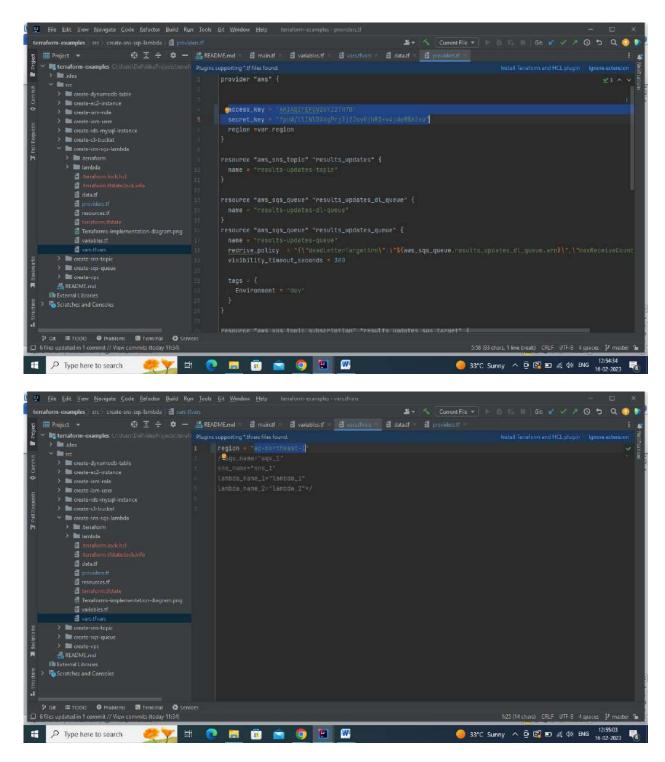
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Roles	<u></u>						3
Policies							
Identity providers							
Account settings							
Access reports							
Access analyzer							
Archive rules							
Analyzers							
Settings							

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Roles	Permissions are defined by policies attached to the us	er directly or through groups.		
Policies	Q, Find policies		< 1 > ©	
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Access reports	AWSLambda_FullAccess	AWS managed	Directly	-
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Analyzers	Set a permissions boundary to control the maximu	um permissions for this user. Use this advanced	d feature used to delegate permission management to others. Learn	
rangeers	more 🗹			

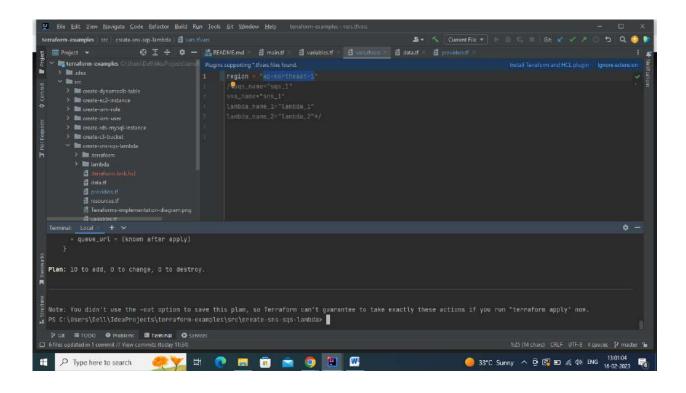
Also give additional permissions for SQS and SNS in Permissions tab

WS III Services Q sns	×	D	🗘 🕜 Global 🔻 bhargaviAW
Identity and Access X Management (IAM)	⊘ 1 policy added		×
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Q Search IAM	Permissions policies (4)	C Remove	
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Access management	Q. Find policies		<1>0
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Roles	AmazonSNSFullAccess AWS mana	ged Directly	
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Identity providers Account settings		ged Directly	
Access reports	AWSLambdaSQSQueueExecu AWS mana	ged Directly	
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Analyzers	Set a permissions boundary to control the maximum permissions for this	user. Use this advanced feature used to delegate permit	ision management to others. Learn
Settings	more 🗹		

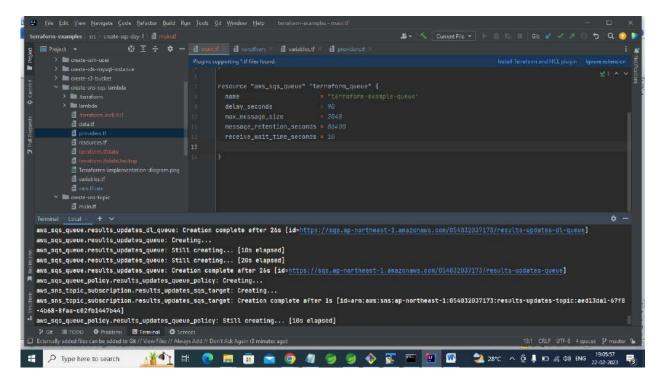
Check out the project terraform-examples into IngtelliJ and set accesskey and secret access code of your AWS IAM user in providers.tf and region in vars.tf



Run "terraform init" and "terraform plan" in the folder



Now run "terraform apply" command. It will ask to enter region and approve by entering yes. Then it will start creating Queue and Topic.



We can see that a Topic and Queue has byeen created in AWS

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