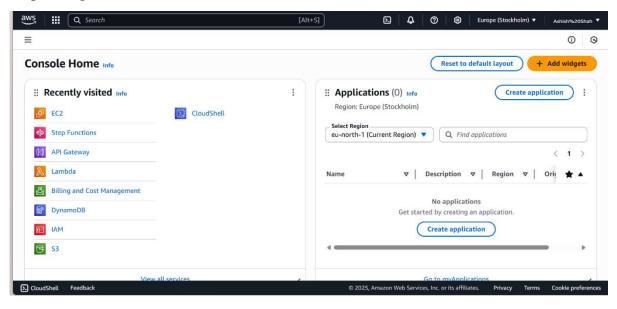
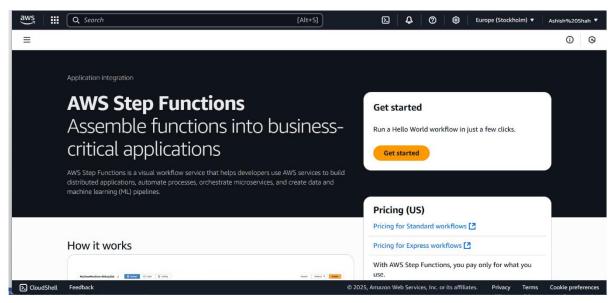
PROGRAM 9: Orchestrating Serverless Functions with AWS Step Functions.

Steps for creating an AWS Step Function:

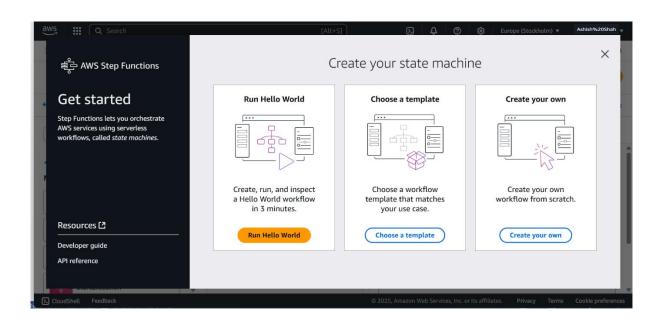
Step 1: Login to AWS Account.



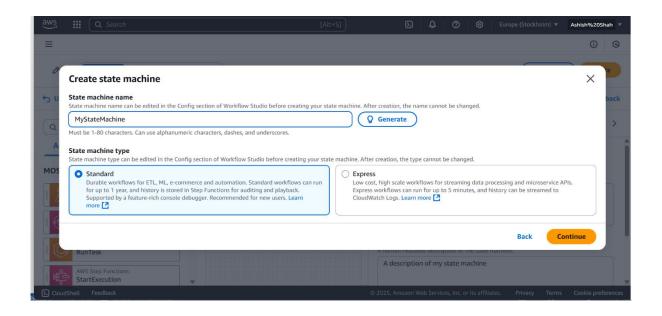
Step 2: Open AWS Step Functions dashboard.



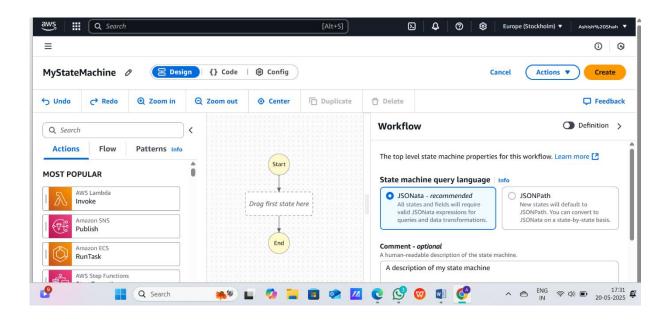
Step 3: In 'Create your state machine' dialog box, select 'Create your own' option.

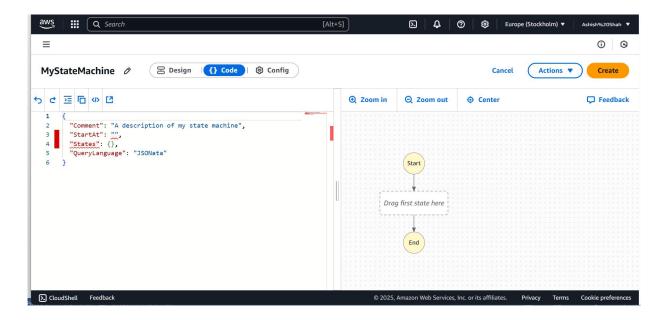


Step 4: In 'Create state machine' dialog box, give State Machine a name (e.g. MyStateMachine), select type as Standard and click on Continue.



Step 5: In your machine dashboard, explore Design and Code templates.





Step 6: In Code section, type the following code & click on Create:

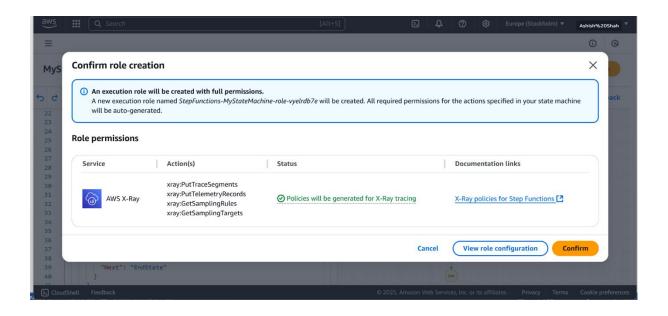
```
{
 "Comment": "An example of the Amazon States Language for scheduling a task.",
 "StartAt": "StartHere",
 "States": {
  "StartHere": {
   "Type": "Pass",
   "Next": "SubjectChoice"
  },
  "SubjectChoice": {
   "Type": "Choice",
   "Choices": [
      "Variable": "$.Subject",
      "StringEquals": "Physics",
      "Next": "Physics"
    },
      "Variable": "$.Subject",
      "StringEquals": "Maths",
      "Next": "Maths"
     }
   ],
   "Default": "EndState"
  },
"Physics": {
   "Type": "Pass",
   "Next": "CheckMarks"
  },
  "Maths": {
   "Type": "Pass",
```

```
"Next": "CheckMarks"
    },
     "CheckMarks": {
        "Type": "Choice",
        "Choices": [
                "Variable": "$.Marks",
                "NumericGreaterThan": 70,
                "Next": "EndState"
             }
        ],
        "Default": "EndState"
    },
    "EndState": {
        "Type": "Pass",
        "End": true
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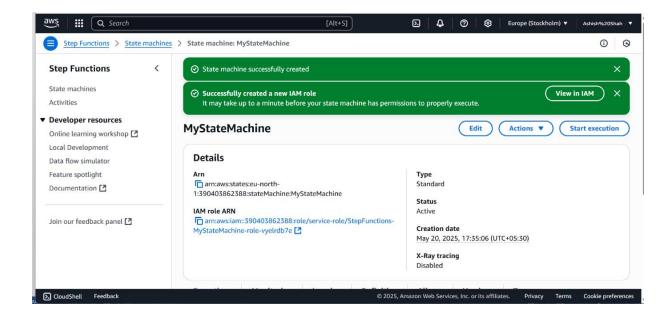
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                        ],
"Default": "EndState"
                  },
"Physics": {
"Type": "Pass",
"Next": "CheckMarks"
  24
25
26
27
28
29
30
31
                  },
"Maths": {
"Type": "Pass",
"Next": "CheckMarks"
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                      "CheckMarks": {
   "Type": "Choice",
   "Choices": [
                               "Variable": "$.Marks",
"NumericGreaterThan": 70,
"Next": "EndState"
```

Explanation of Code: Above code checks the Marks and Subject Name from User's Input in JSON Format; States can be visually seen in the State Diagram next to code.

Step 7: In Confirm role creation click confirm.

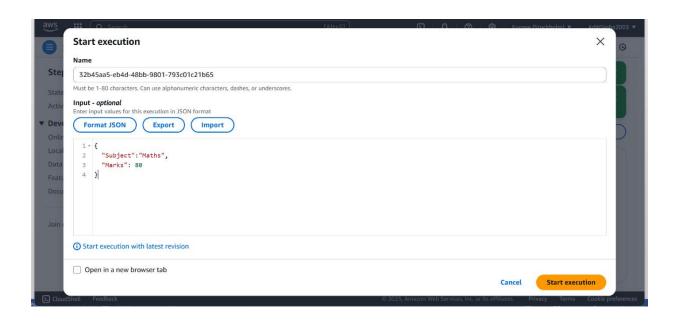


Step 8: State machine is now successfully created.

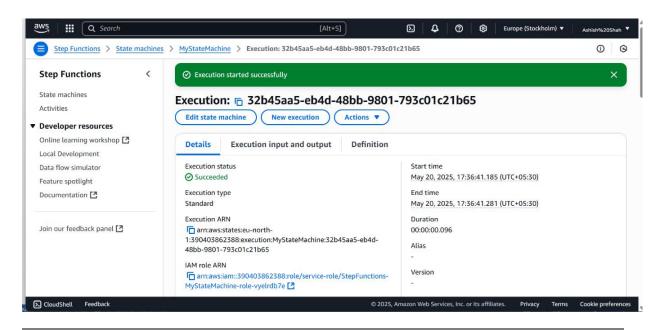


Steps for execution of your machine:

Step 1: In Start execution dialog box, provide input and click on Start execution.



Step 2: Execution is successfully started we can notice the flow of execution in Graph, Table and State view.



Graph View:

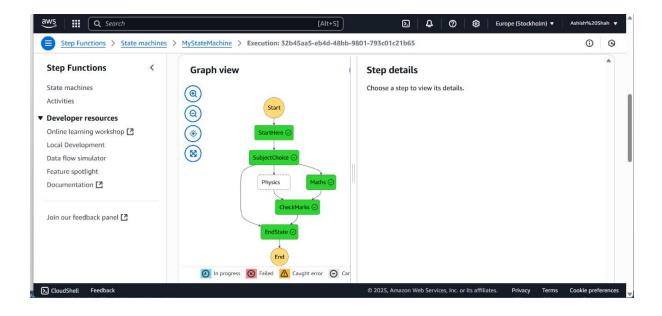
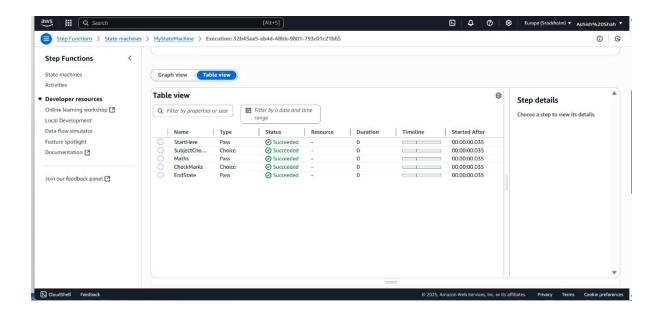
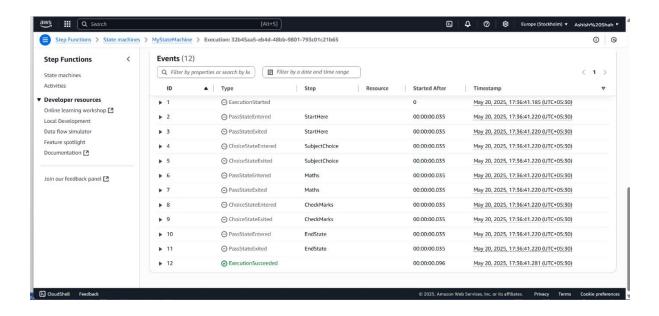


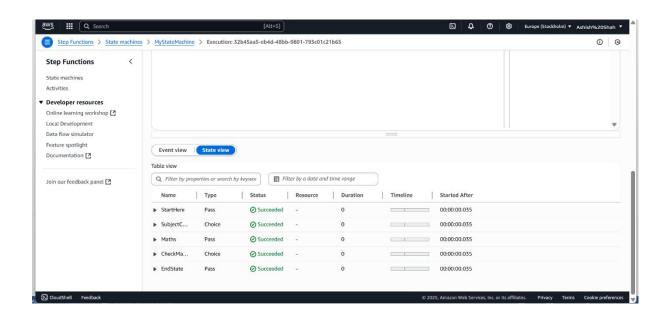
Table view:

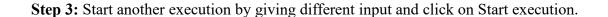


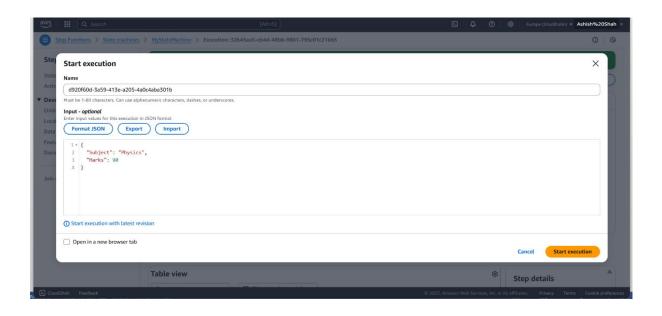
Event View:



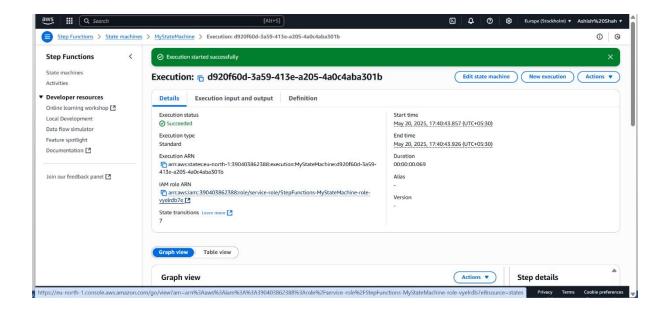
State View:







Step 4: Execution is successfully started we can notice the flow of execution in Graph, Table and State view.



Graph View:

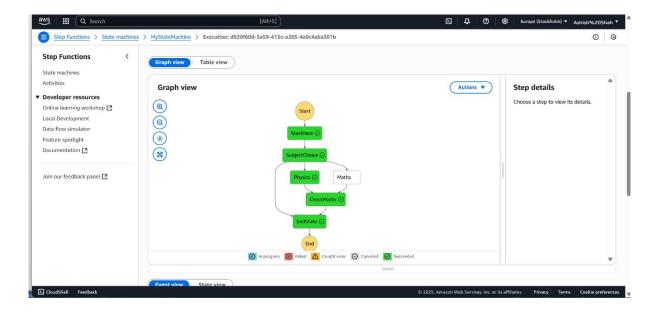
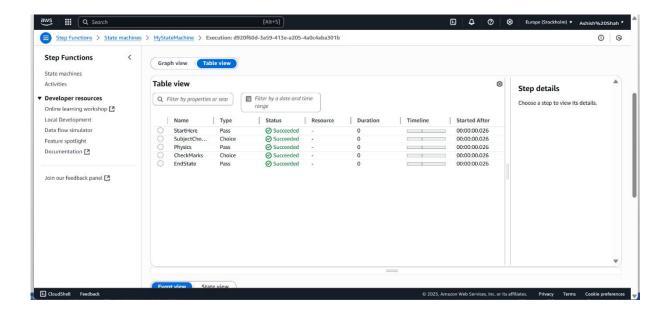
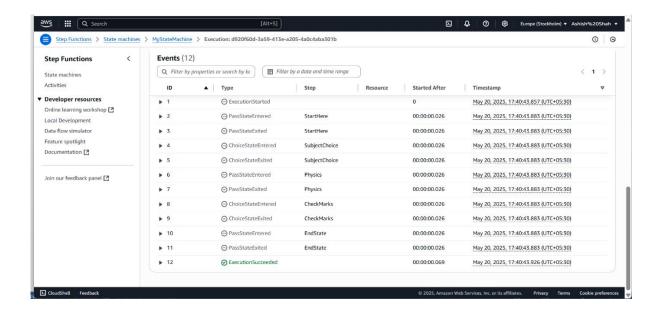


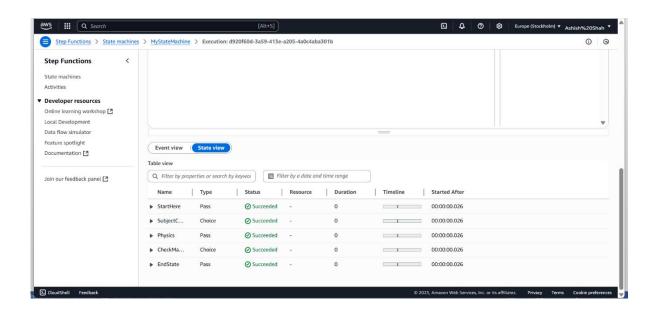
Table view:



Event View:

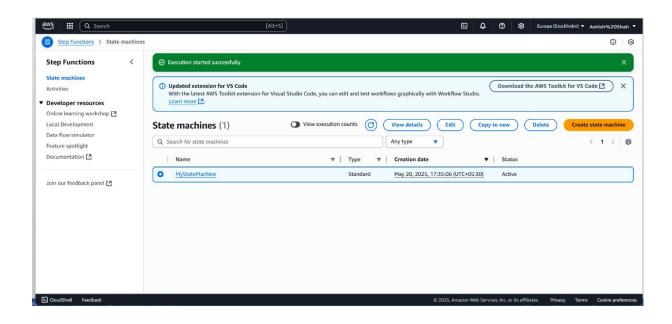


State View:

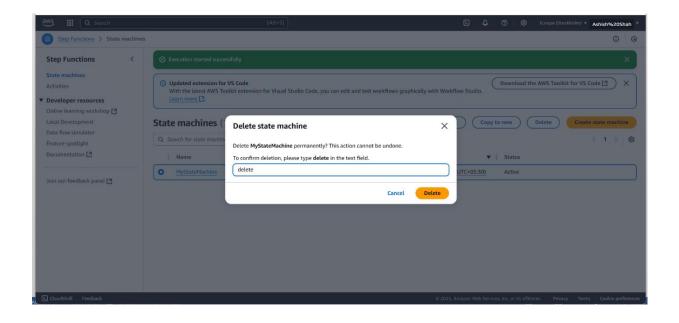


Steps for deletion of Step Function:

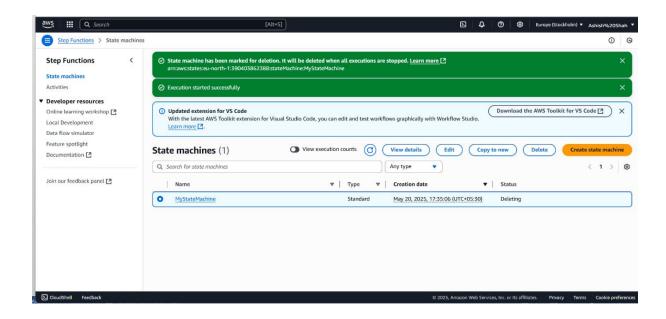
Step 1: Go to your state machine, click on Actions then Delete.



Step 2: In delete state machine dialog box type delete and click on Delete.



Step 3: Successful Deletion notification is displayed.



We can now log out from our AWS Account.