DOTNET CORE-AZURE

MINI-PEOJECT

Create a **Web API** Project to store Product Information. Use Entity Framework to store the product information in the database. The under should be able to perform all the CRUD Operation. Configure **GET**, **POST**, **PUT** and **DELETE.**

 The product Entity should have the following properties:

- Product ID
- ProductName
- Price
- Brand
- Manufacture Date
- Expiration Date

Use Data Annotations to

- Mark the Primary Key
- Make ProductName Mandatory
- Make Price a Number

Create a jQuery and AJAX Client to consume the Web API and show the result.
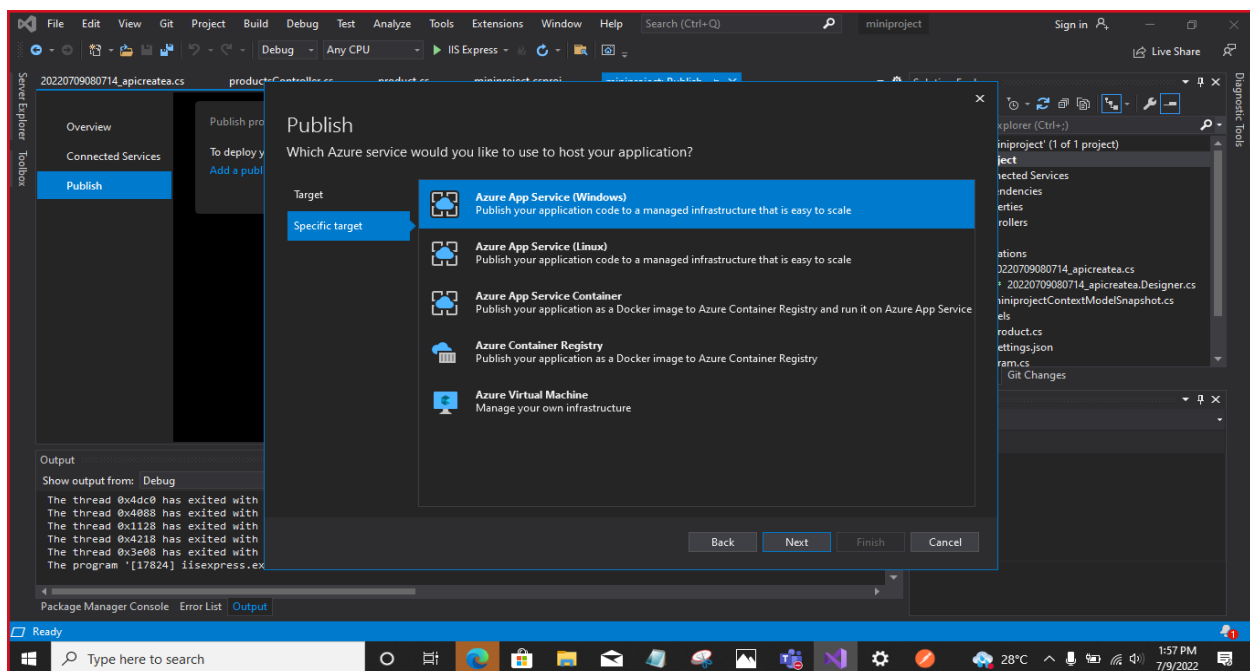
Azure Hosting:

- Host the web api in azure and consume the   same using jQuery Client.
- Configure Scale out by adding rules for custom scaling
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- Configure Application Insights for the project
- Configure swagger for the api
- Work with Log Analytics with the sample logs available

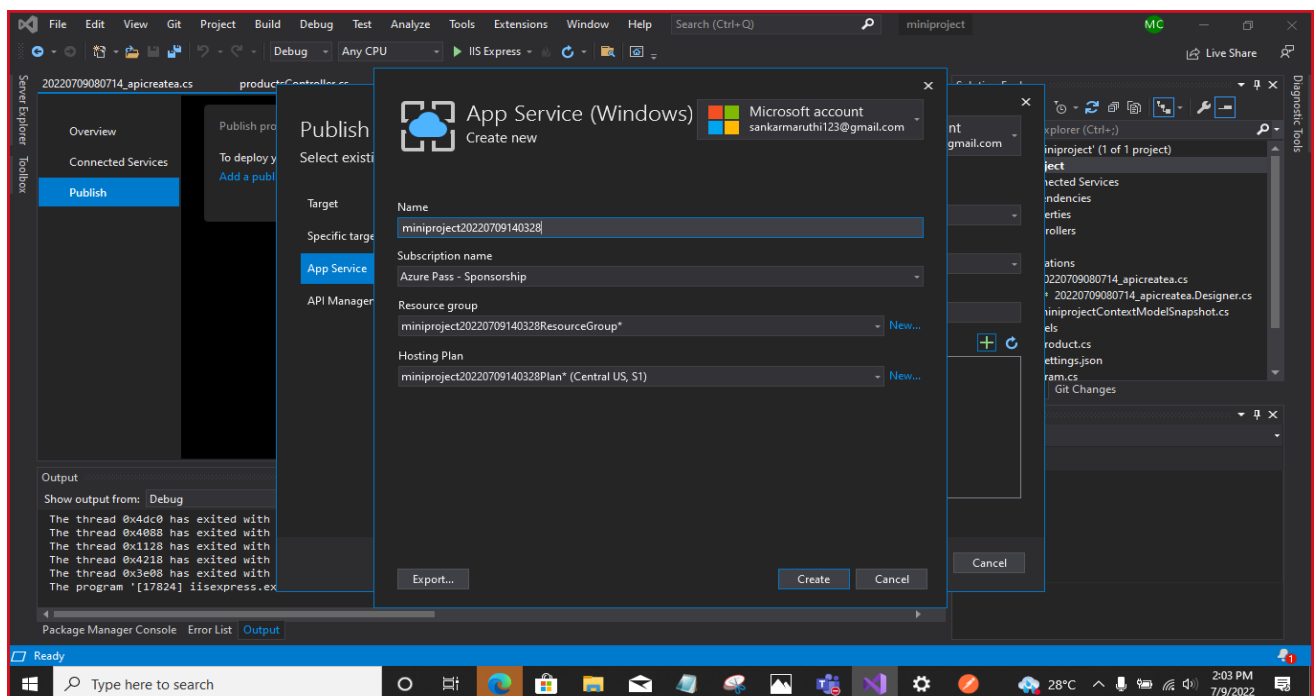## 1. Host the web api in azure and consume the same using jQuery Client.
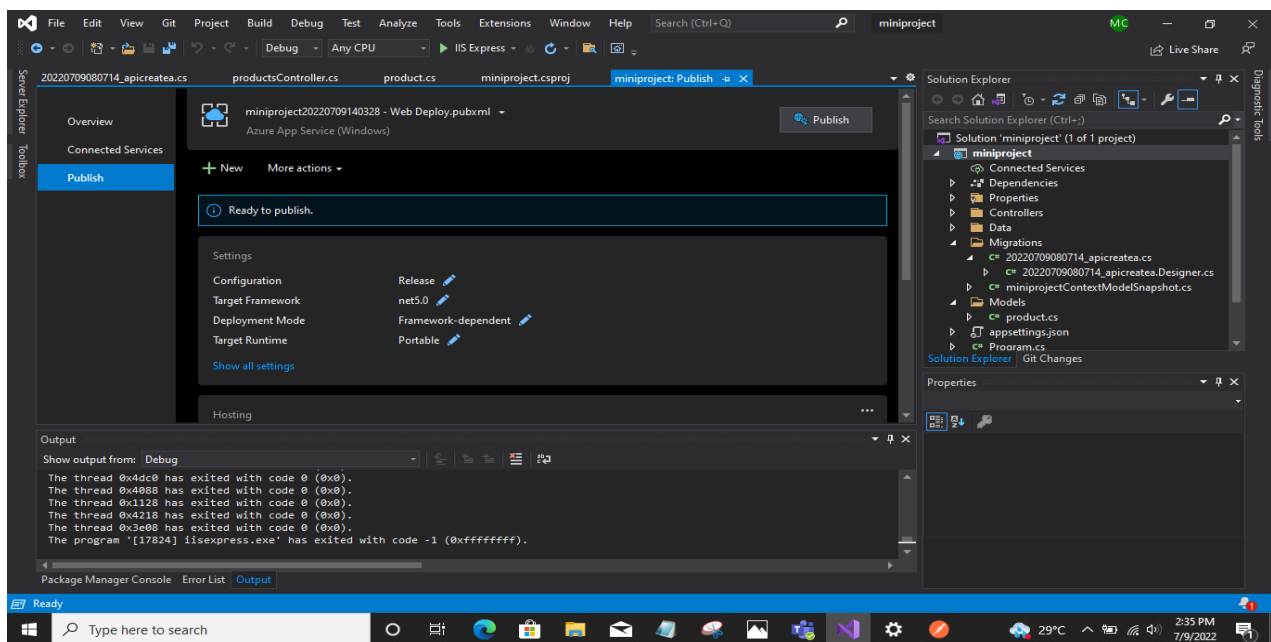
♦ In the public, select azure and select the Next button.
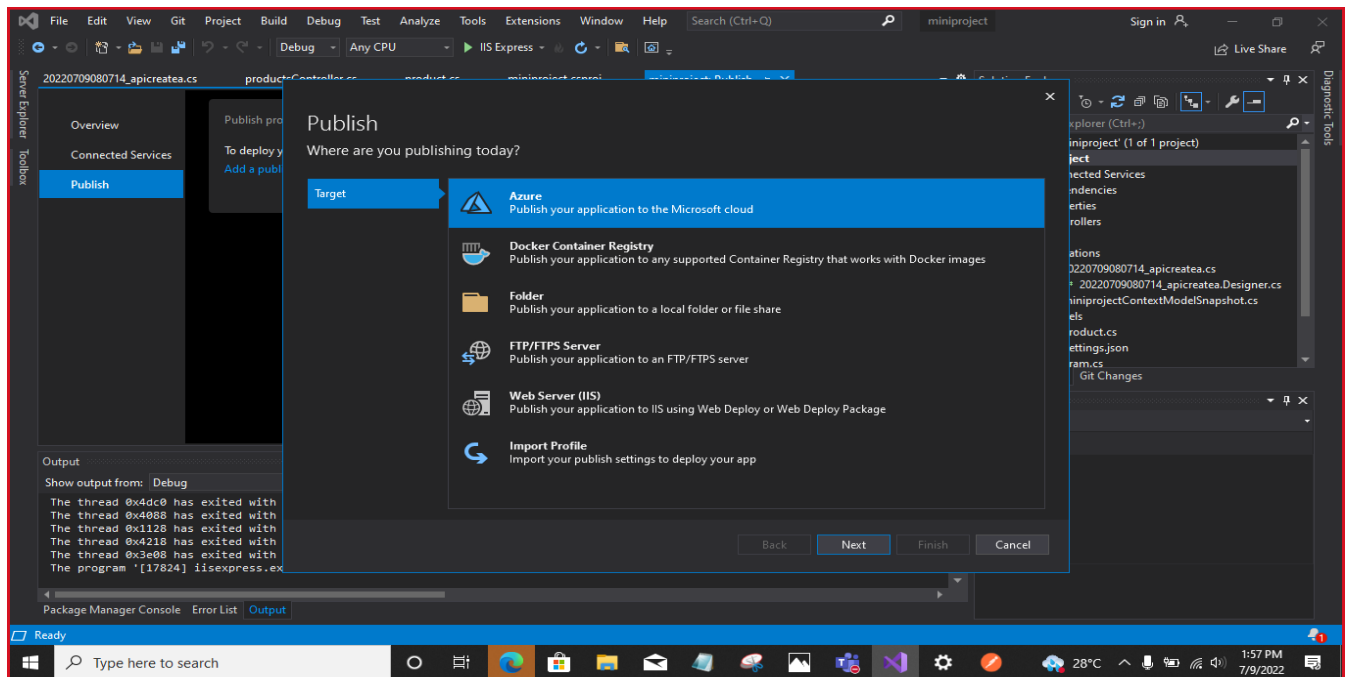
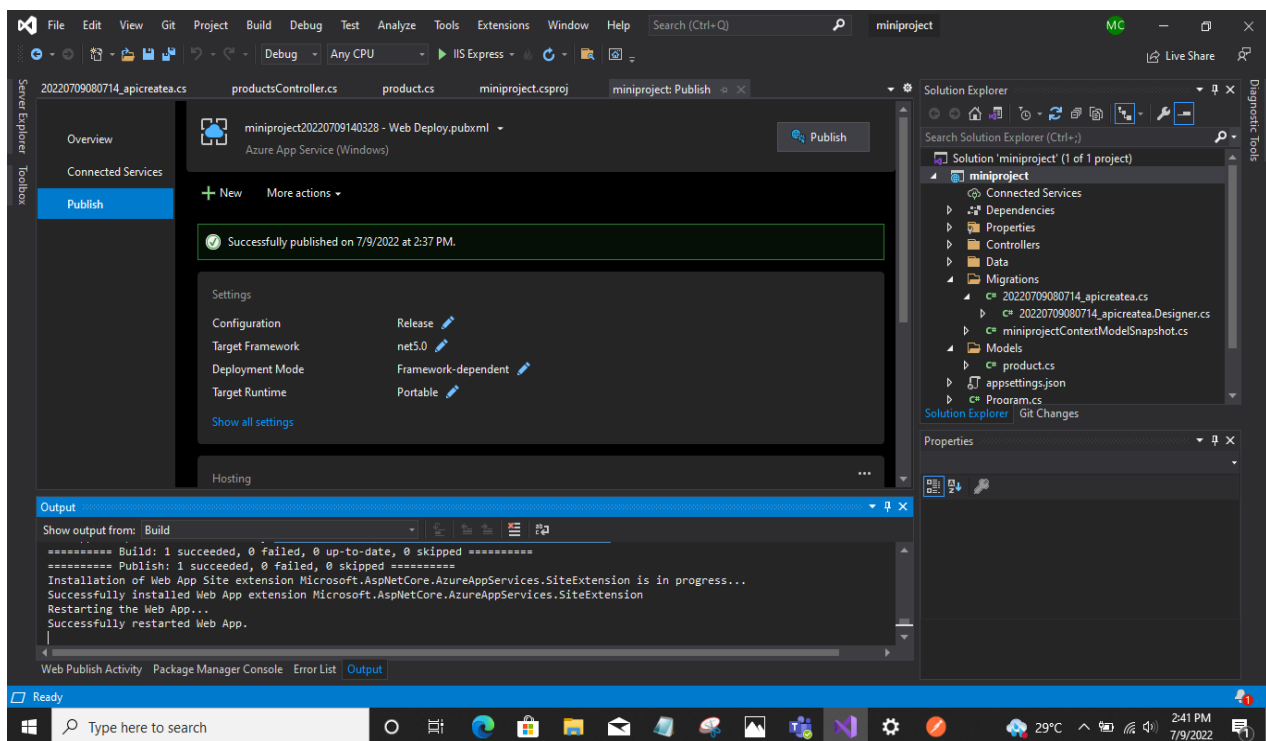♦ Select Azure App Service (Windows) and Select the Next Button.

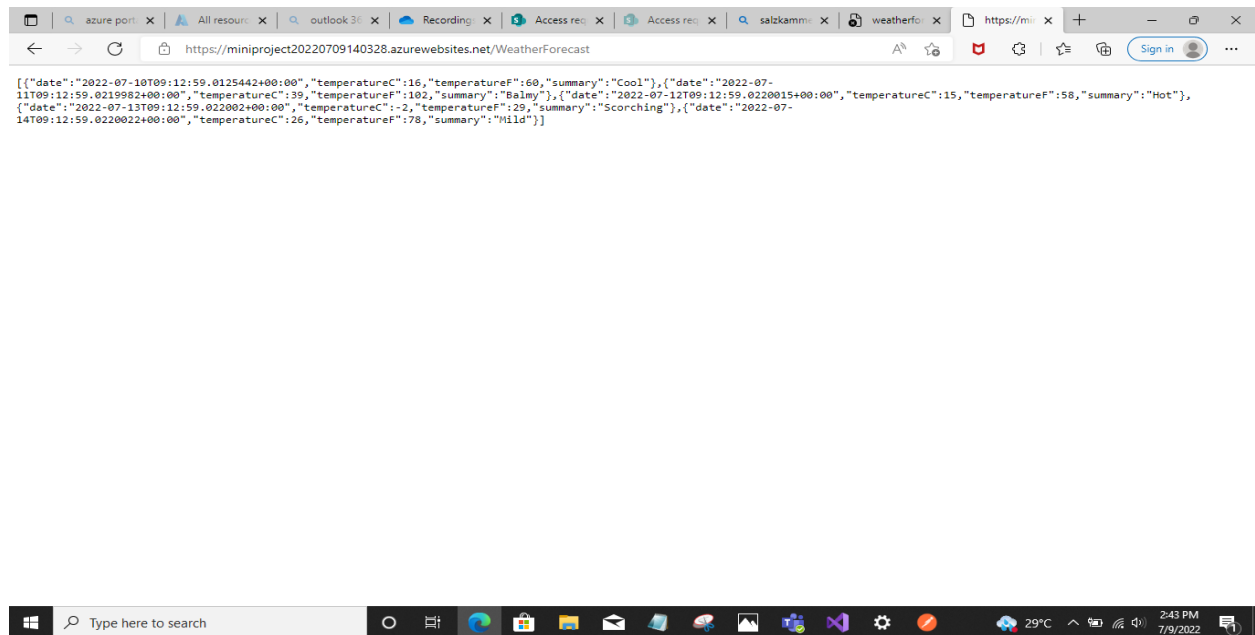♦ Select App Service (Windows) and Select the Create Button.

♦ Here We are Going To Ready To Publish and Select Publish
Button.

♦ After selecting Public Button, It Has successfully Published.

♦   After publising, it can created on web page as WeatherForecast, then the all the Required Data is Visible.

[{"date":"2022-07-10T09:12:59.0125442+00:00","temperatureC":16,"temperatureF":60,"summary":"Cool"},{"date":"2022-07-11T09:12:59.0219982+00:00","temperatureC":39,"temperatureF":102,"summary":"Balmy"},{"date":"2022-07-12T09:12:59.0220015+00:00","temperatureC":15,"temperatureF":58,"summary":"Hot"},{"date":"2022-07-13T09:12:59.022002+00:00","temperatureC":-2,"temperatureF":29,"summary":"Scorching"},{"date":"2022-07-14T09:12:59.0220022+00:00","temperatureC":26,"temperatureF":78,"summary":"Mild"}]

2.Configure Scale Out By Adding   Rules For Custom scaling

♦ Switch to the Scale out(App service plan) that you scale up by changing the pricing tier of the App Service Plan that your app belongs to scale out.

♦ Increase the number of VM instances that run your app.
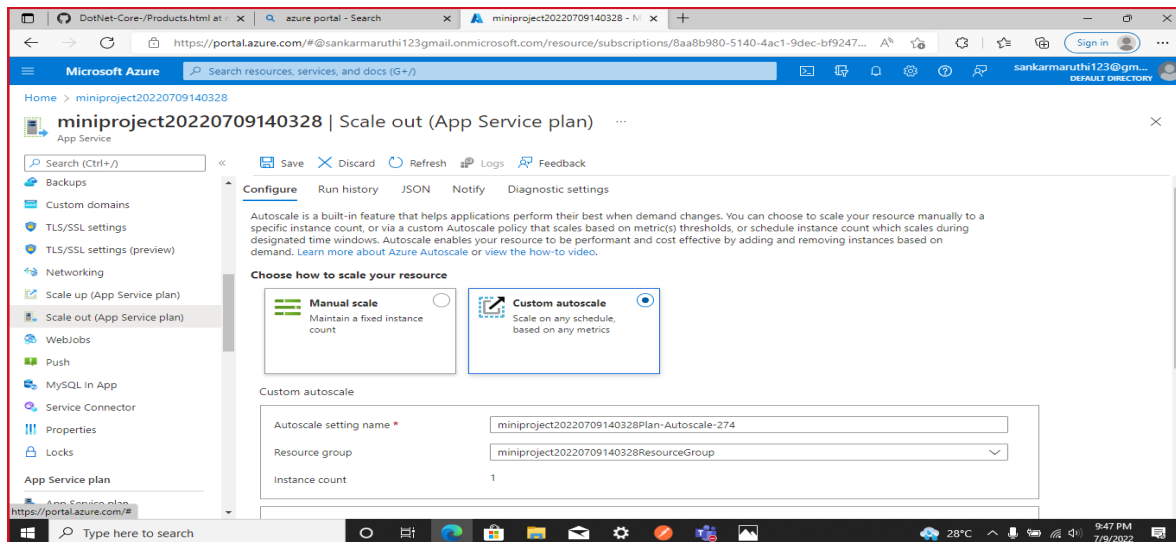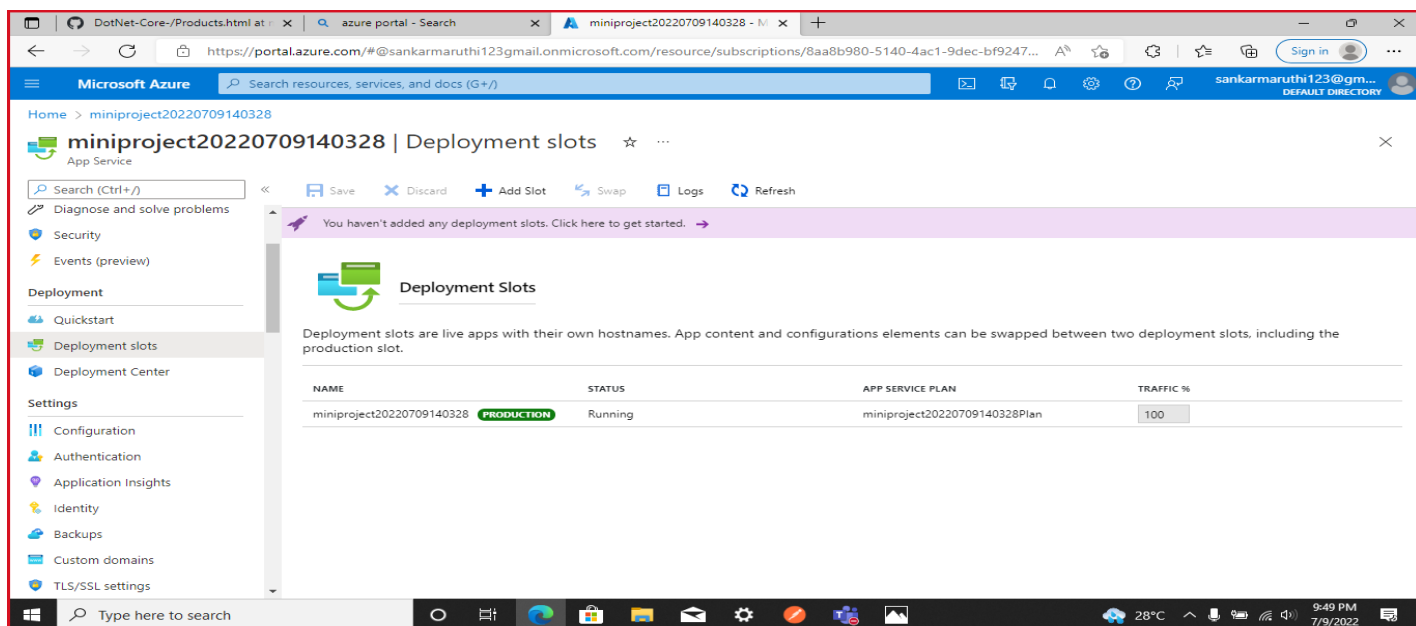
♦ After that click thje scale out then scale role page will be open then after select Add button.
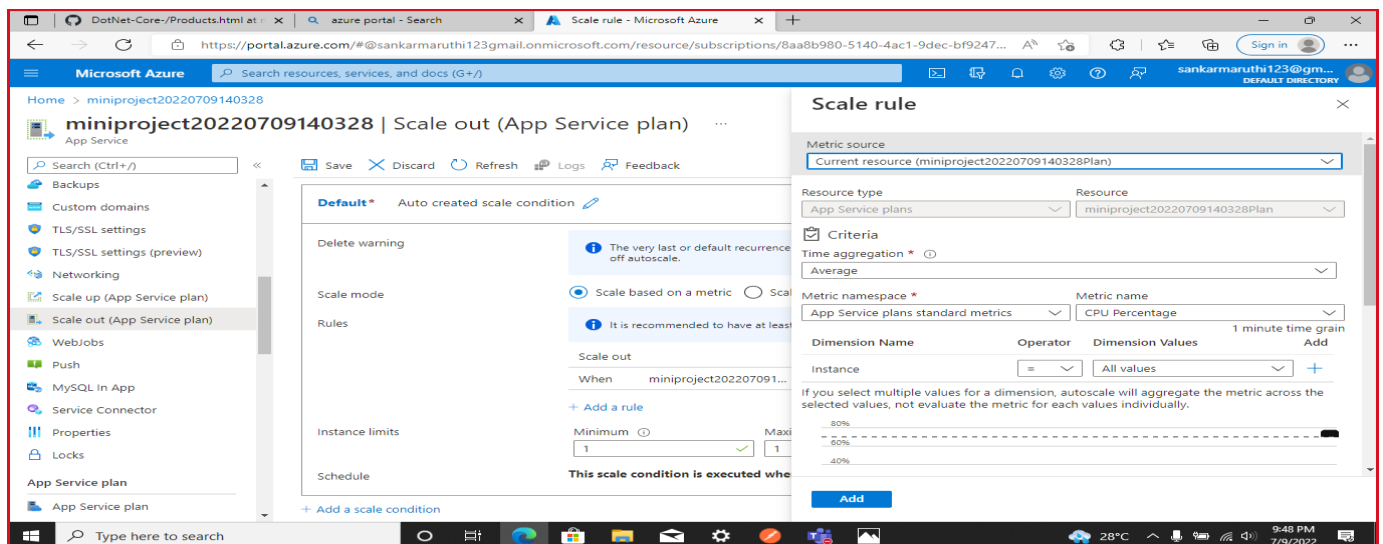
3.Configure Deployment Slots for staging and Production

♦ Coming toi the Deployment slots that is allow ypur function app run to run different instances that defined as "slots".

♦ Slots are different environments exposed via a publicly available end point.

♦ After selecting Deployment slots then here we can add

A slot for creating project, that instance is always mapped to the production slot, and you can swap instances assaigned to a slot on demand.

♦   After Adding slot ten we are going to swap the slot, when auto swap is enabled from a slot into production, every time you push your code changes to that slot.

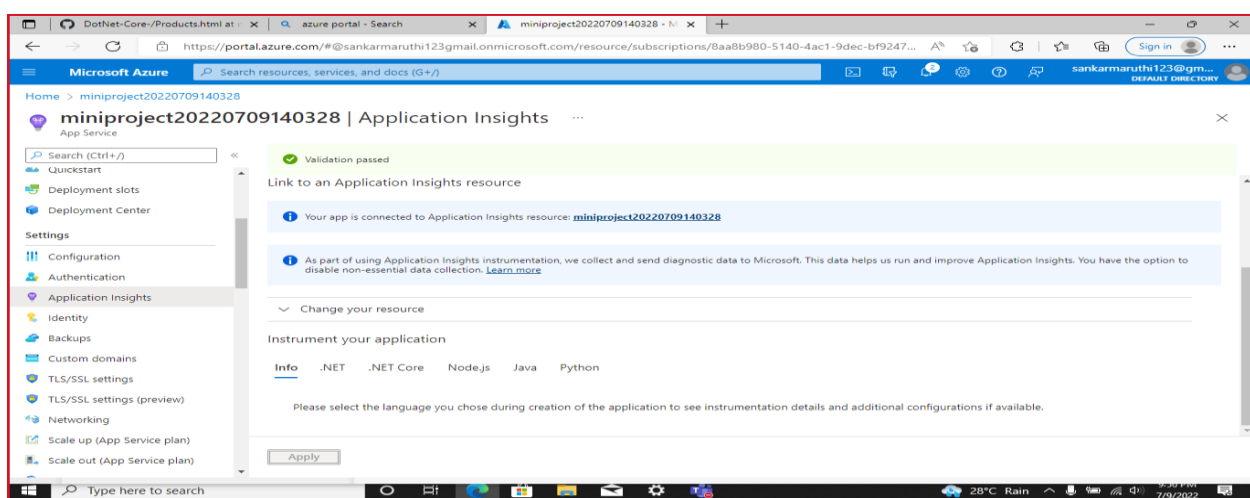♦   App service automatically swaps the app into production afetr it's warmed up in the source slot.
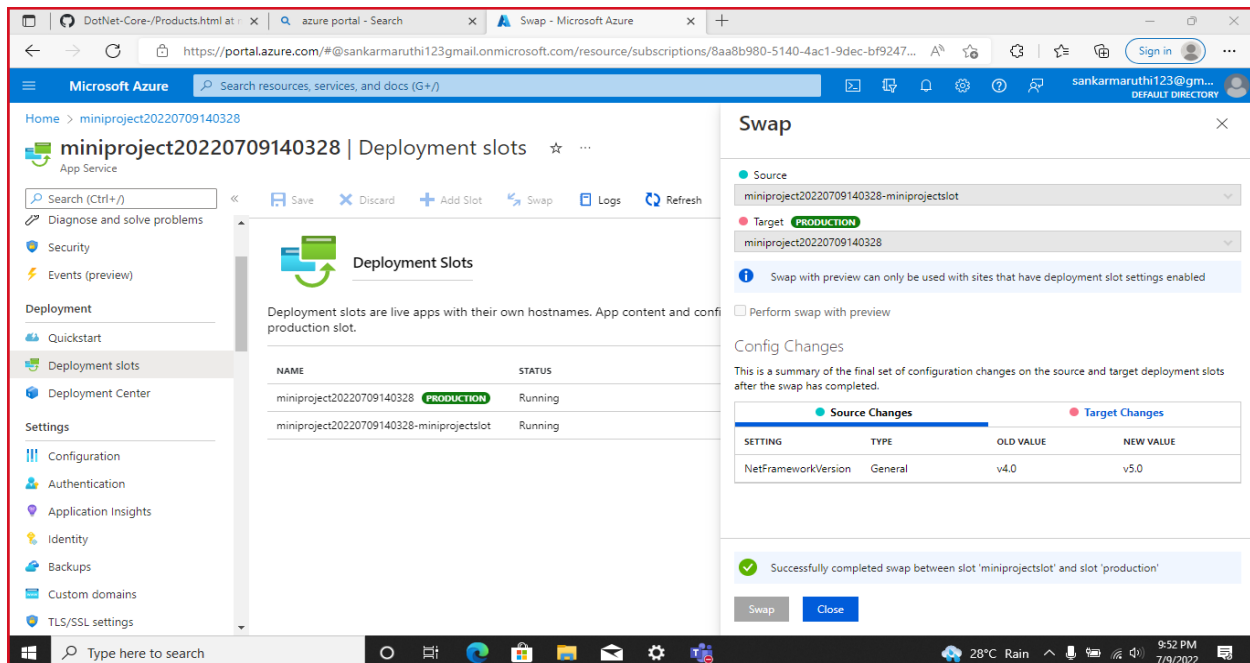
4.Configure Application Insights for the Project

♦ Application Insights Provides extensible application performances management (APM) and monitoring for live web apps.
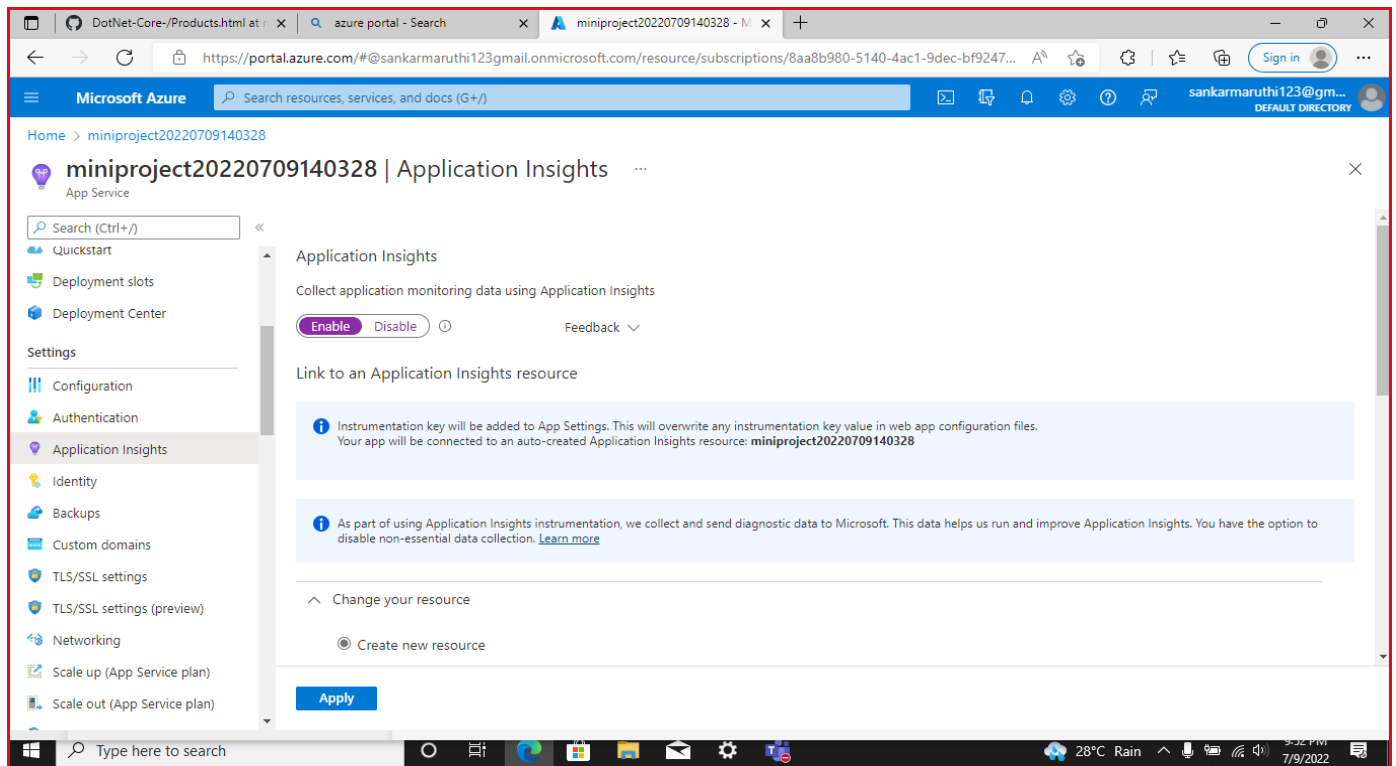
♦ Here we can validated by the application insights then it is successfully passed.

5. Configure Swagger for the api

♦ Swagger helps users build, document, test and consumes, RESTful web services.

♦ It can be used both top down and bottom up API development approach.

♦ In the top down, or design first, method, Swagger can be used to design an API before any code Written.
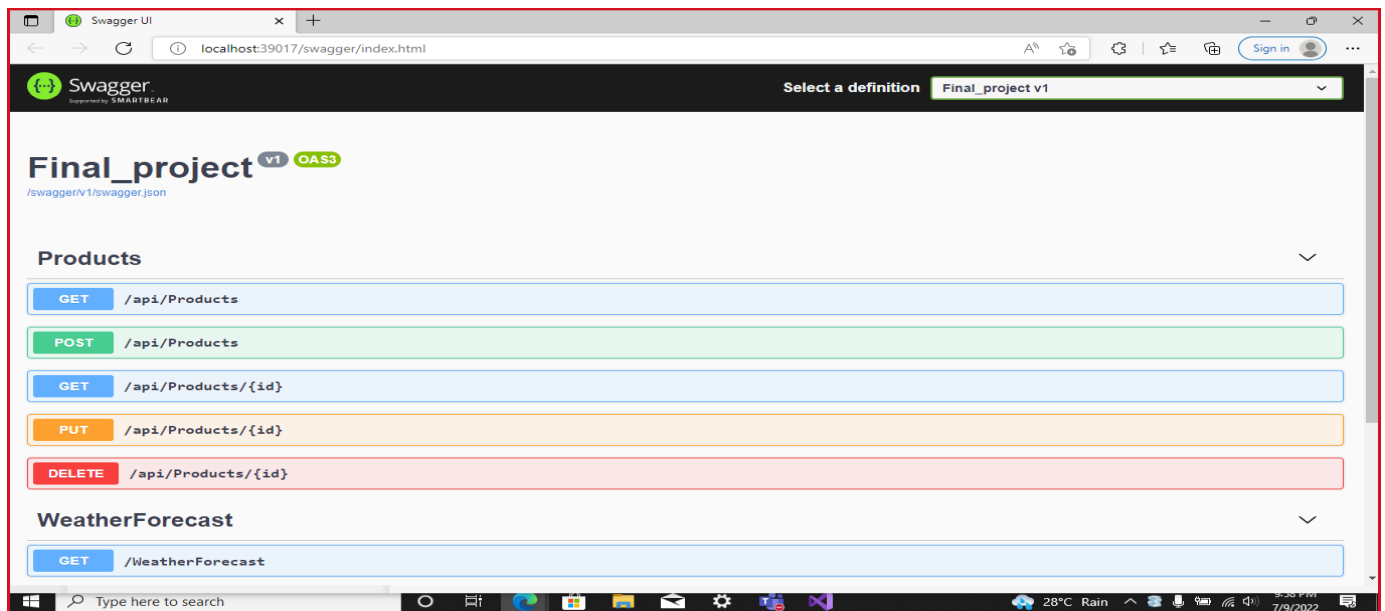
6.Work with Log Analytics with the Sample logs available

♦ We click Log analytics page that is which tool is edit and run log queries from data collected by monitor logs and interactively analyze their results.

♦ You can use log analytics queries to retrieve record that match particular criteria , identify trends , analyze patterns, and provide various insights into your data.
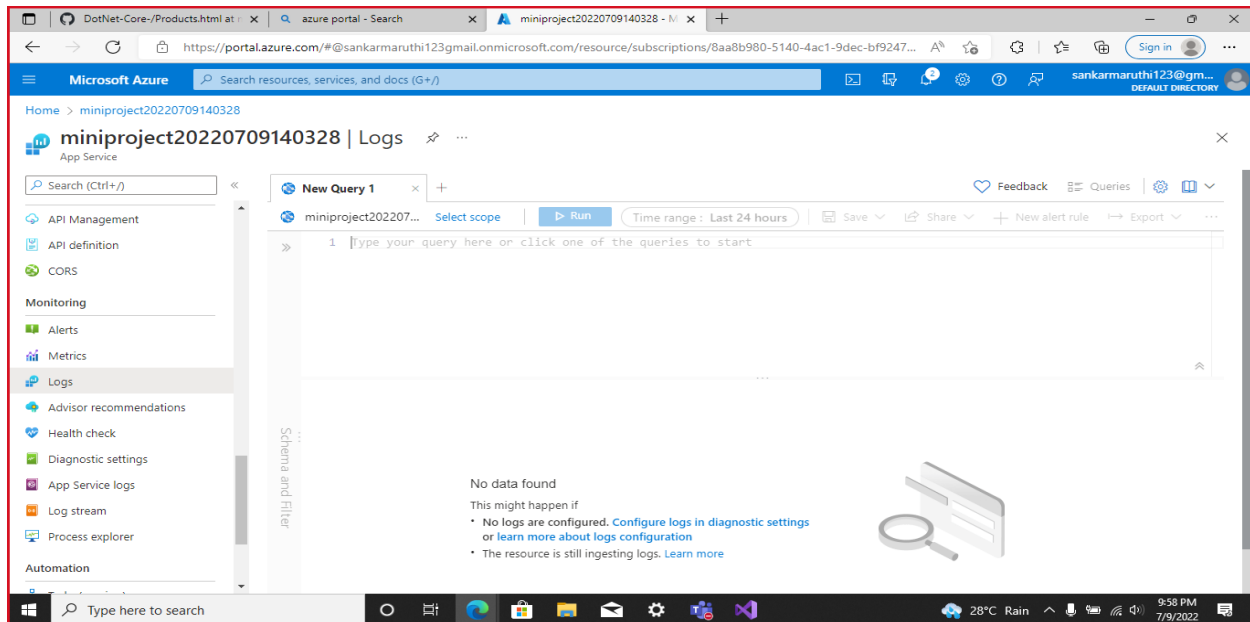
♦ After that completion of monitoring of log analytics, we have to check logs

♦ Select the platform featured like resources then, we csn monitoring, choose log streaming .

♦ Here we can open the web page and run log ,we have certain details of log analytics.

6.