TalkToMeBOT-A Mental Health ChatBot

GitHub Link:
https://github.com/soumyo2002/FRT_Final_Project

Deployment Link:
https://soumyo2002.github.io/FRT_Final_Project/

Problem Statement:

A good percentage of people suffer from mental health problems but they lack the knowledge and awareness to cure it. When left untreated, mental health problems can lead to poor academic or work performance, higher medical expenses, increased risk of suicide, fewer employment opportunities, etc.

Description

TalkToMeBOT is a Mental Health ChatBot where people can get answers to their questions and doubts like what is mental illness? How to cure mental illness?Sucide prevention and many more regarding mental health and can also get resources for futher help. The ChatBot aims to promote mental health awareness.This chatbot is built using Azure AI/ML services. QnA Maker is a cloud-based Natural Language Processing (NLP) service that allows you to create a natural conversational layer over your data. It is used to find the most appropriate answer for any input from your custom knowledge base (KB) of information. The ChatBot uses Azure QnA maker which helps in storing FAQs and answers to potential questions that can be asked by the user and Azure Bot Service which provides artificial intelligence (AI) chatbot which helps in providing an interactive environment to the user. It also uses HTML and CSS for webpage design. The code is written on Visual Studio Code and is deployed using Github.

Project Objectives

The main objectives of the project are as follows:

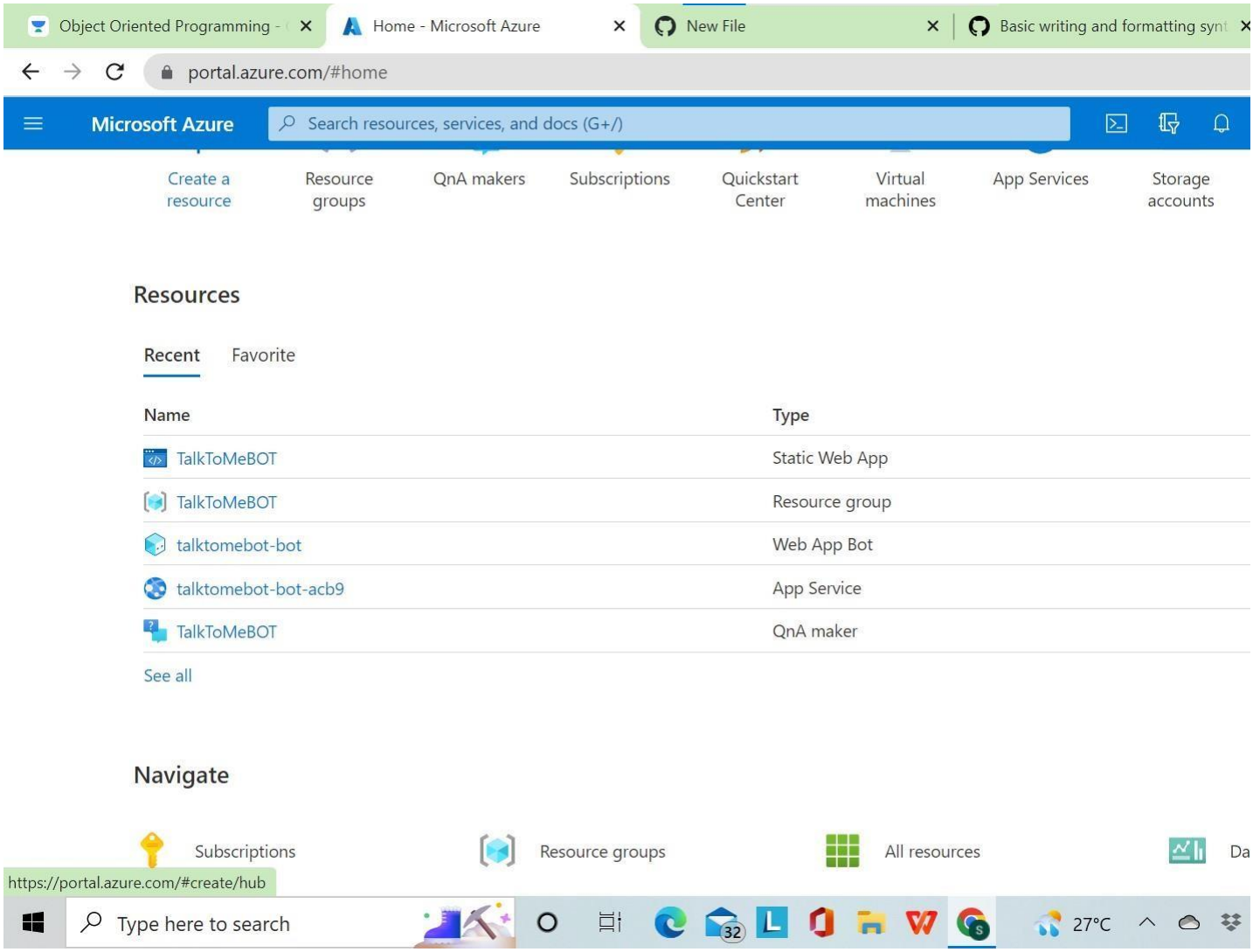
1. To provide users with accurate and helpful information about mental health
2. To provide a friendly and engaging chatbot interface
3. To provide jokes to cheer up people who may be feeling down

Architecture

The FRT_Final_Project is built using the following technologies:

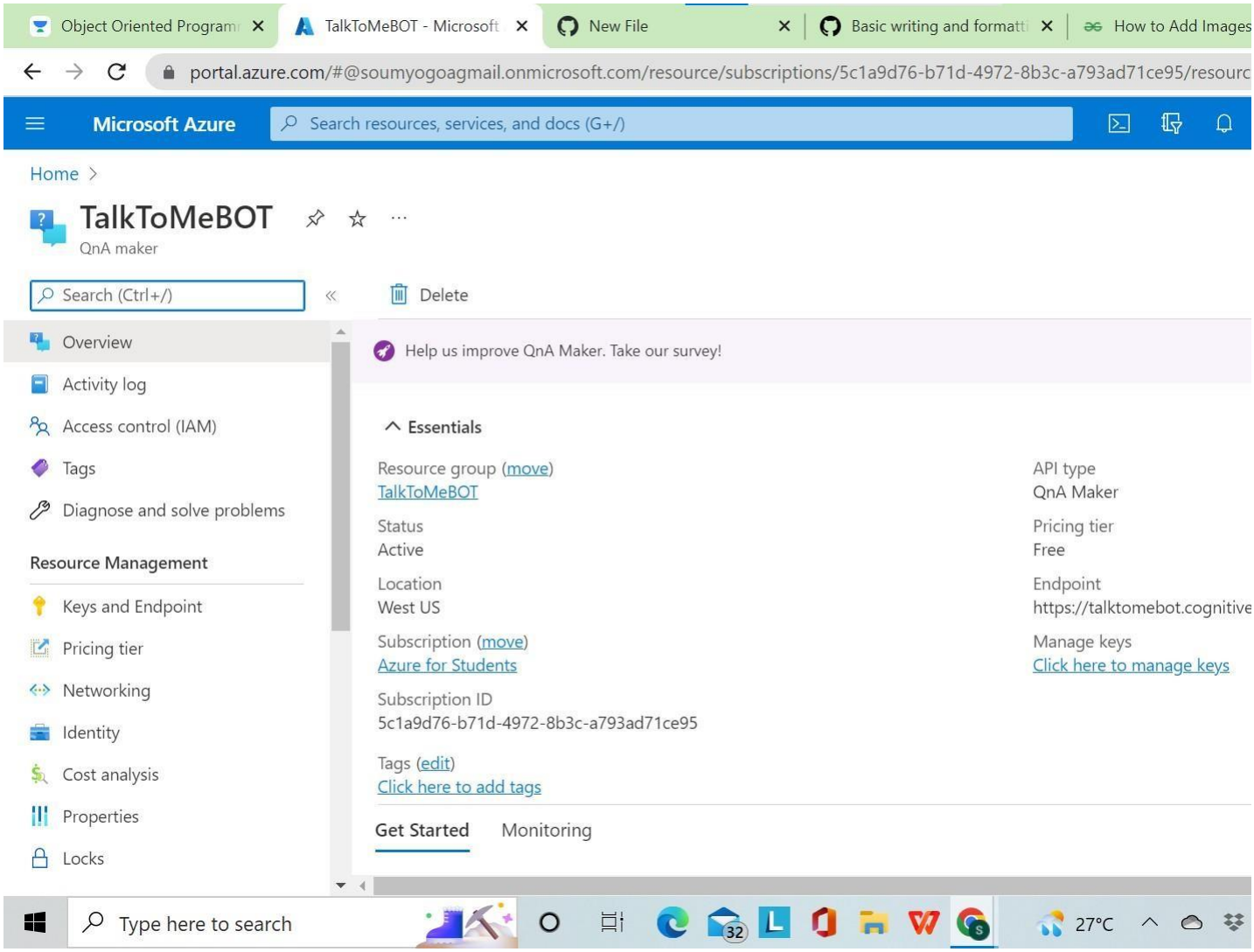
Azure QnA services: used for providing accurate and helpful information about mental health
Azure Bot services: used for handling user inputs and providing appropriate responses
Python: used as the main programming language
The chatbot architecture is based on a question-answer model, where the user inputs a question or statement, and the chatbot provides a response based on the input.

Screenshots:

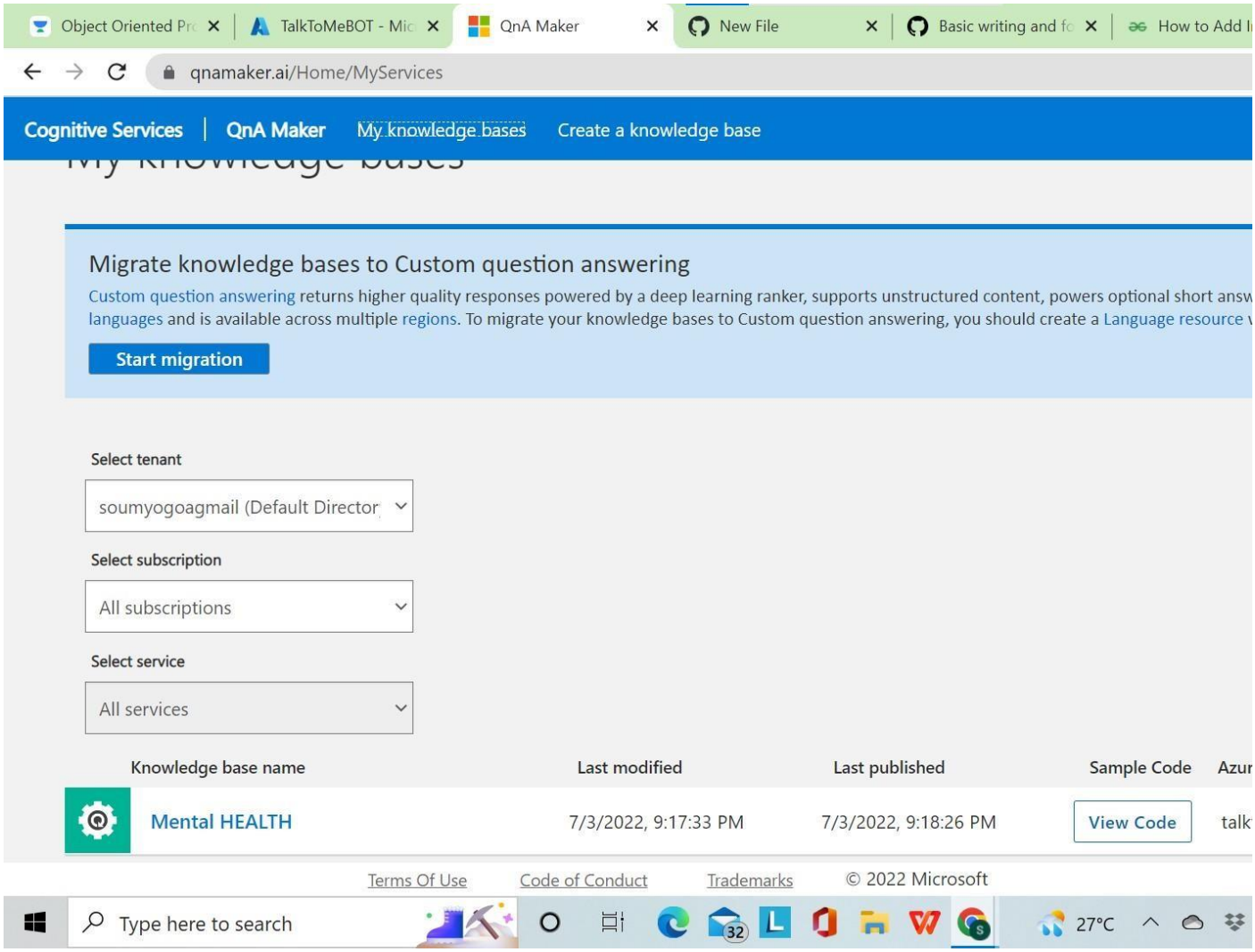


1st step:Created azure serviices named TallkToMeBot

2nd step:Created Azure QnA maker



3rd step:Created Azure Knowledge Base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QnA Maker
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qnamaker.ai/Home/MyServices
Cognitive Services | QnA Maker
My knowledge bases
Create a knowledge base
Migrate knowledge bases to Custom question answering
Custom question answering returns higher quality responses powered by a deep learning ranker, supports unstructured content, powers optional short answ
languages and is available across multiple regions. To migrate your knowledge bases to Custom question answering, you should create a Language resource
Start migration
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soumyogoagmail (Default Director
Select subscription
All subscriptions
Select service
All services
Knowledge base name
Last modified
Last published
Sample Code
Azur
Mental HEALTH
7/3/2022, 9:17:33 PM
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© 2022 Microsoft
Type here to search
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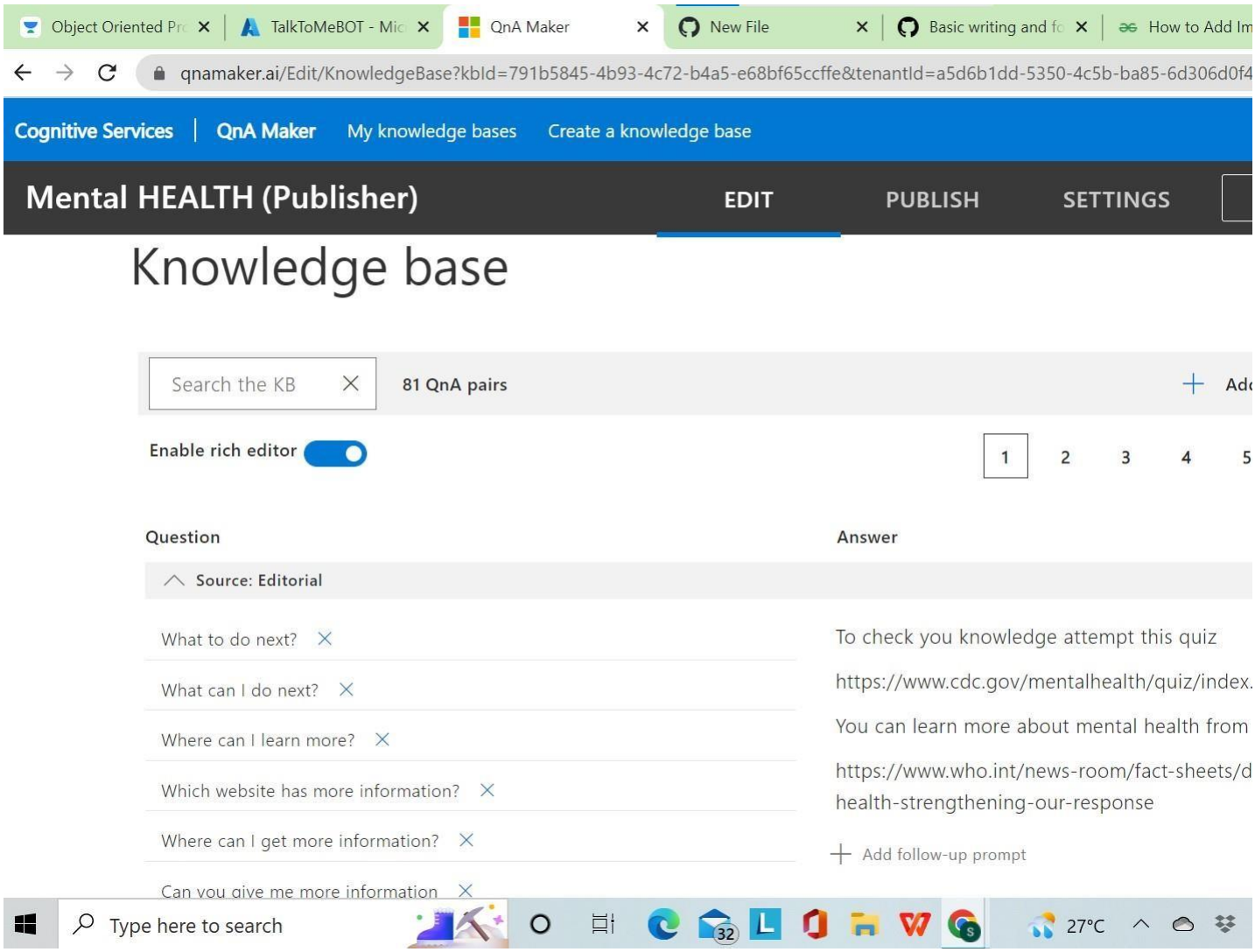
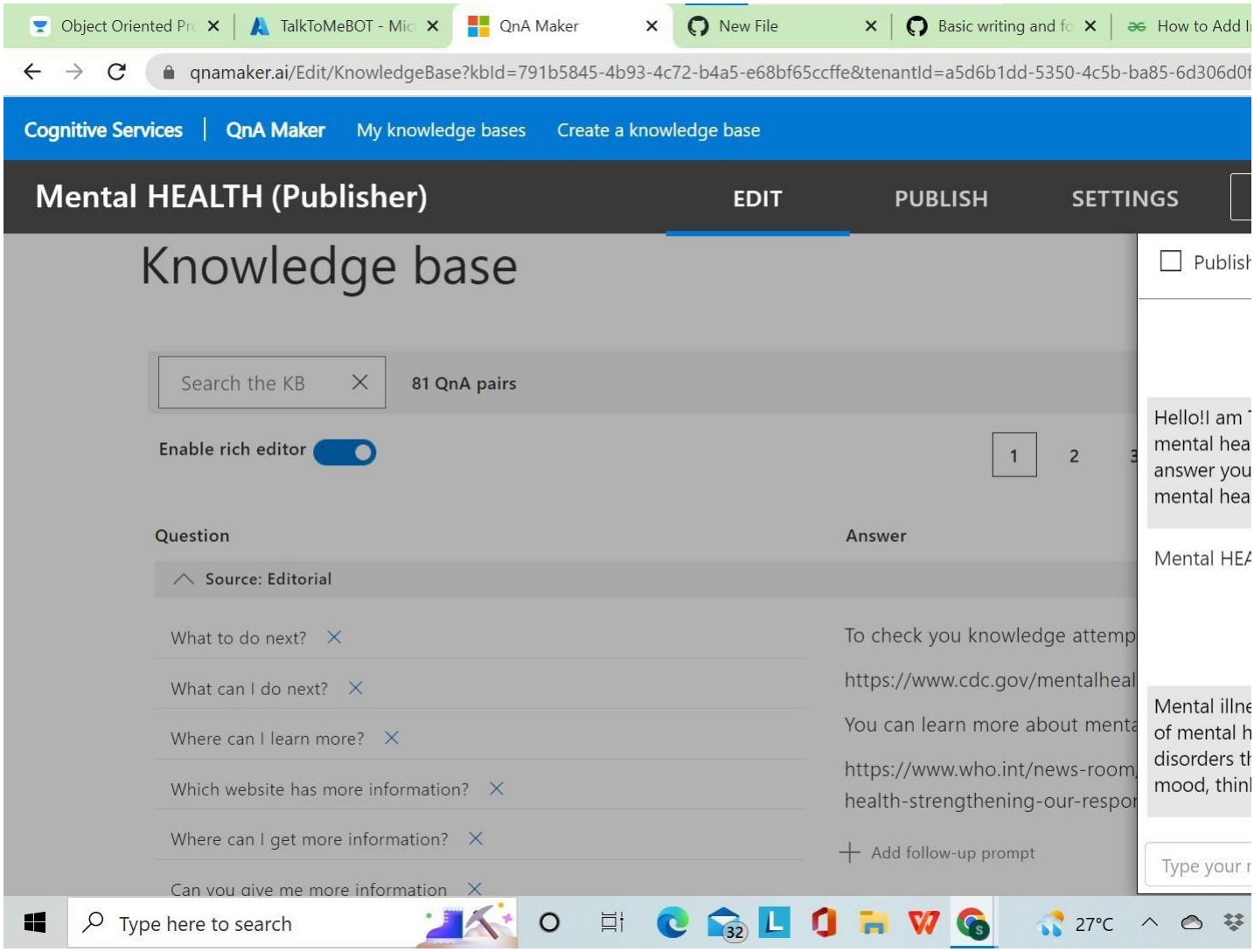
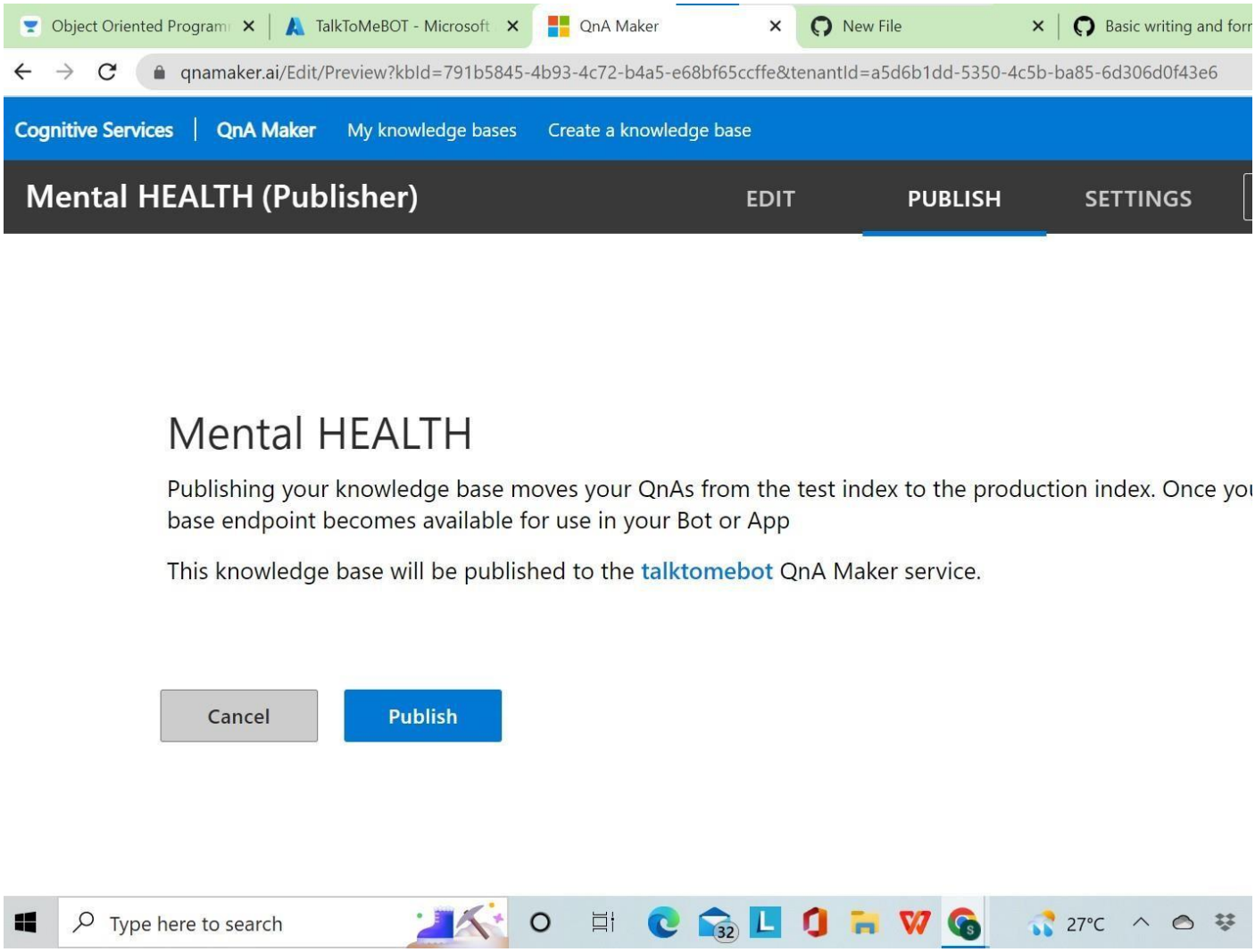


4th step:Train the Bot using test feature



5th step:Publishing the Bot by creating Azure Bot


Object Oriented Program
TalkToMeBOT - Microsoft
QnA Maker
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Cognitive Services | QnA Maker
My knowledge bases
Create a knowledge base
Mental HEALTH (Publisher)
EDIT
PUBLISH
SETTINGS
Mental HEALTH
Publishing your knowledge base moves your QnAs from the test index to the production index. Once you
base endpoint becomes available for use in your Bot or App
This knowledge base will be published to the talktomebot QnA Maker service.
Cancel
Publish
Type here to search
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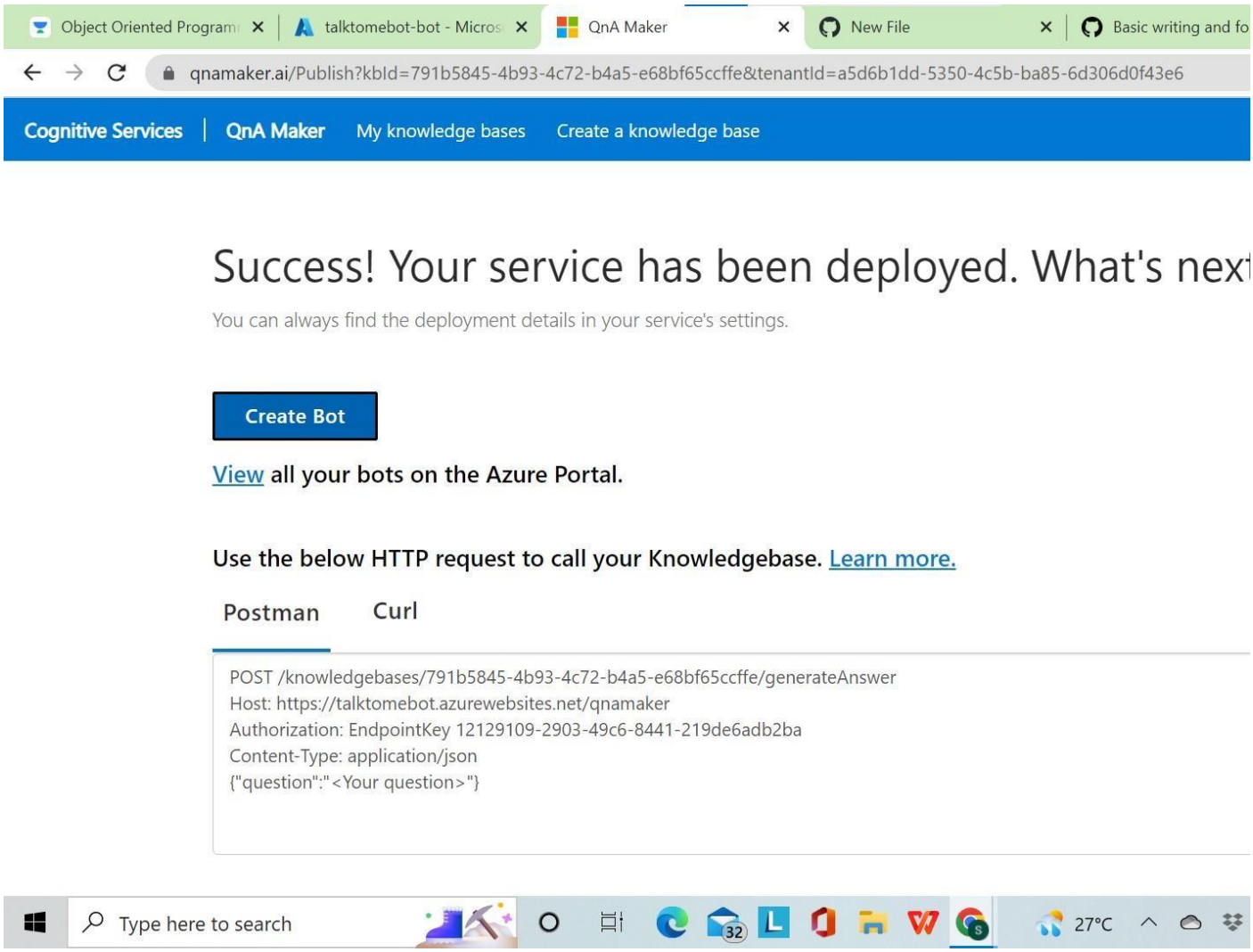
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Cognitive Services | QnA Maker
My knowledge bases
Create a knowledge base
Success! Your service has been deployed. What's next
You can always find the deployment details in your service's settings.
Create Bot
View all your bots on the Azure Portal.
Use the below HTTP request to call your Knowledgebase. Learn more.
Postman
Curl
POST /knowledgebases/791b5845-4b93-4c72-b4a5-e68bf65ccffe/generateAnswer
Host: https://talktomebot.azurewebsites.net/qnamaker
Authorization: EndpointKey 12129109-2903-49c6-8441-219de6adb2ba
Content-Type: application/json
{"question":"<Your question>"}
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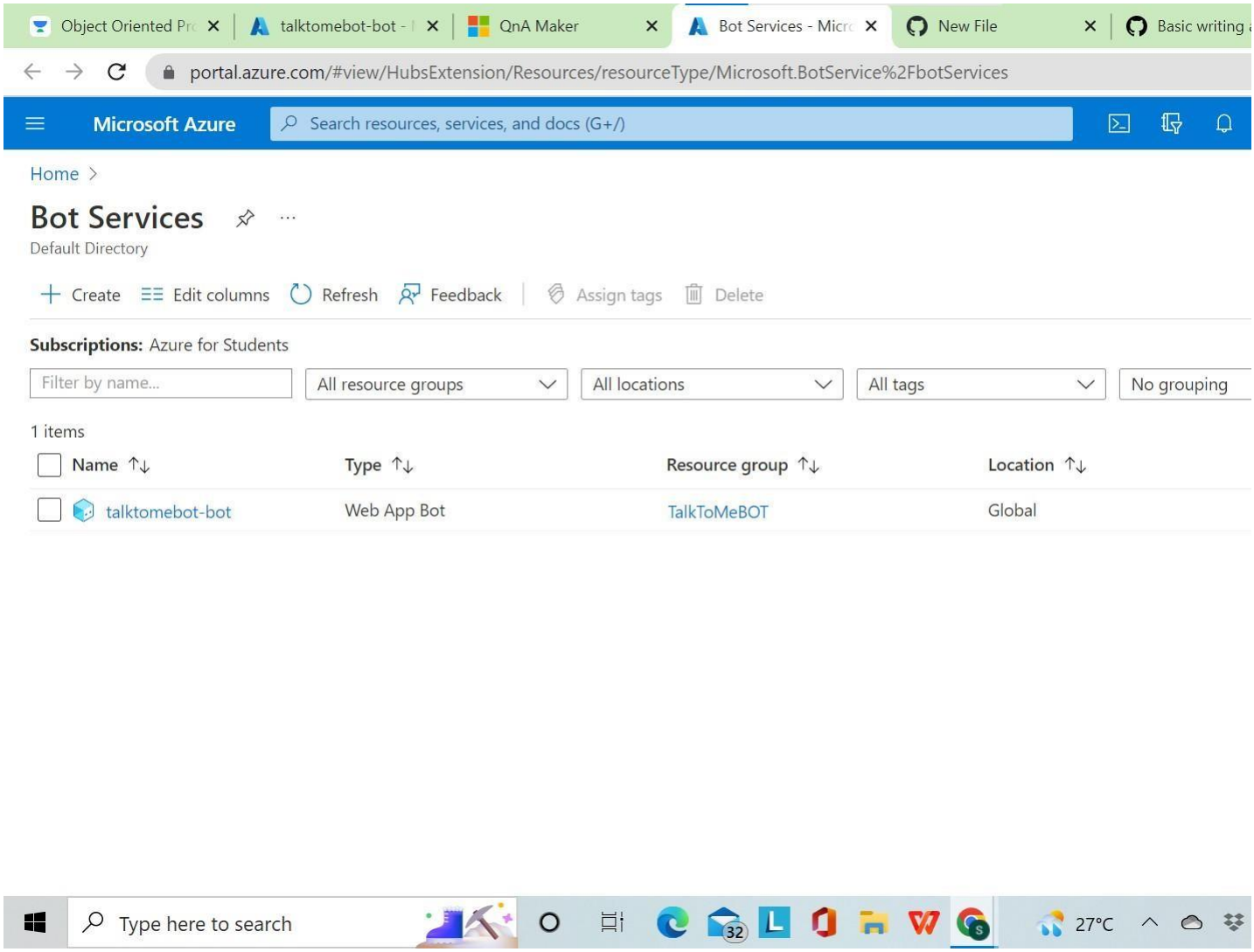
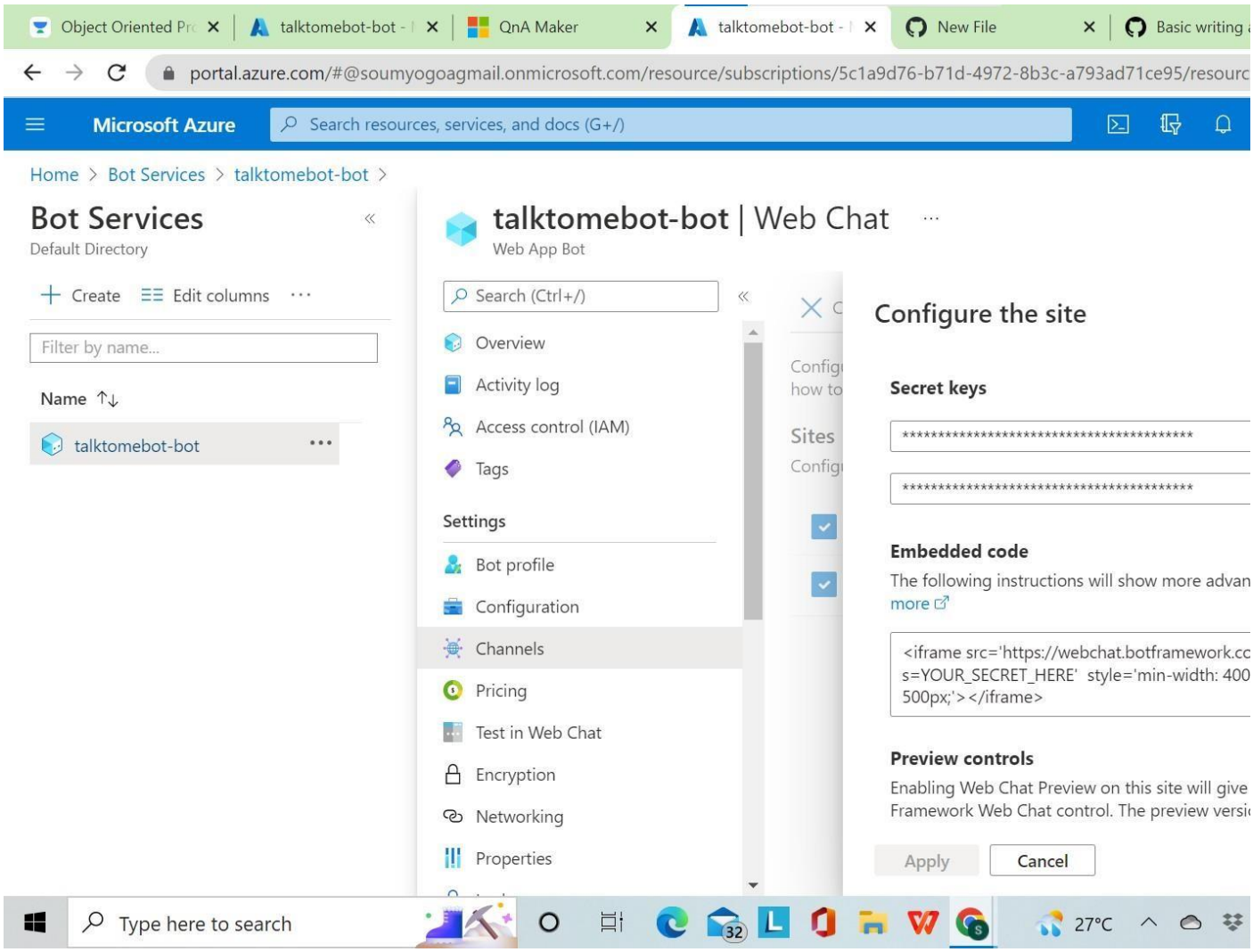


6th step:Copying the Embedded code and Secret Key to HTML code to enable our chat bot to work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QnA Maker
talktomebot-bot -
New File
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Microsoft Azure
Search resources, services, and docs (G+/)
Home > Bot Services > talktomebot-bot >
Bot Services
Default Directory
Create
Edit columns
Filter by name...
Name
talktomebot-bot
talktomebot-bot | Web Chat
Web App Bot
Search (Ctrl+/)
Overview
Activity log
Access control (IAM)
Tags
Settings
Bot profile
Configuration
Channels
Pricing
Test in Web Chat
Encryption
Networking
Properties
Configure the site
Secret keys
Embedded code
The following instructions will show more advan
more
<iframe src='https://webchat.botframework.cc
s=YOUR_SECRET_HERE' style='min-width: 400
500px;'></iframe>
Preview controls
Enabling Web Chat Preview on this site will give
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Apply
Cancel
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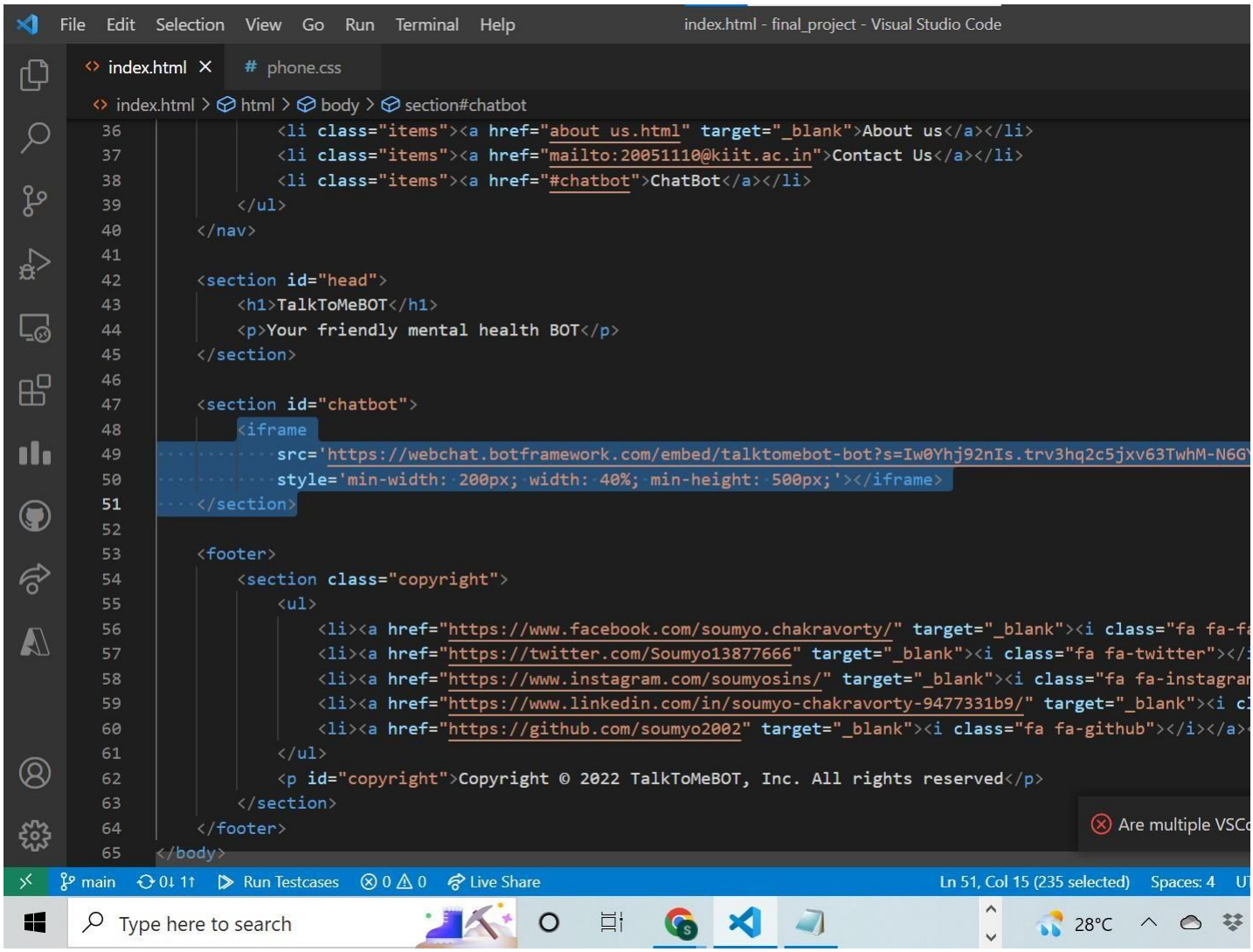
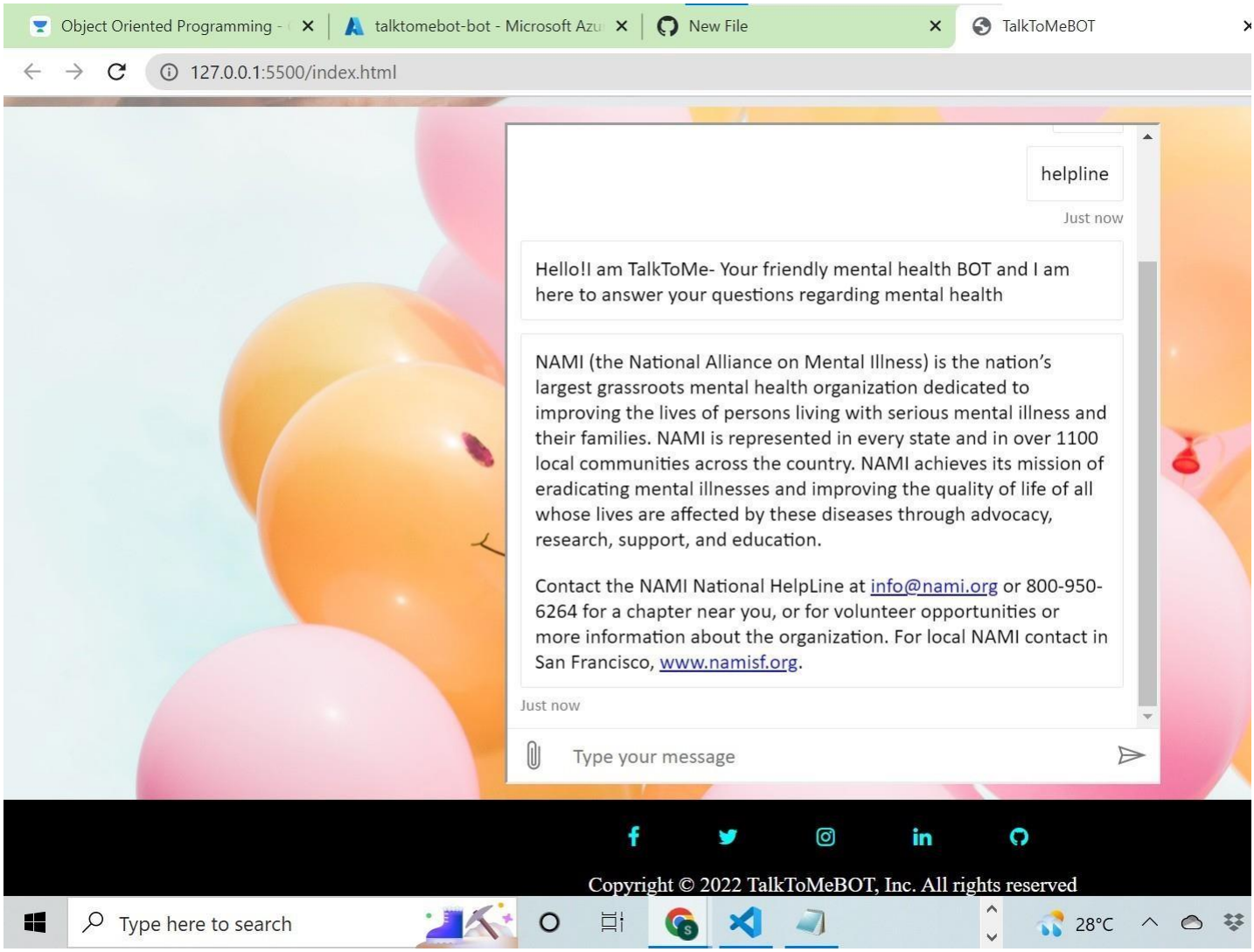
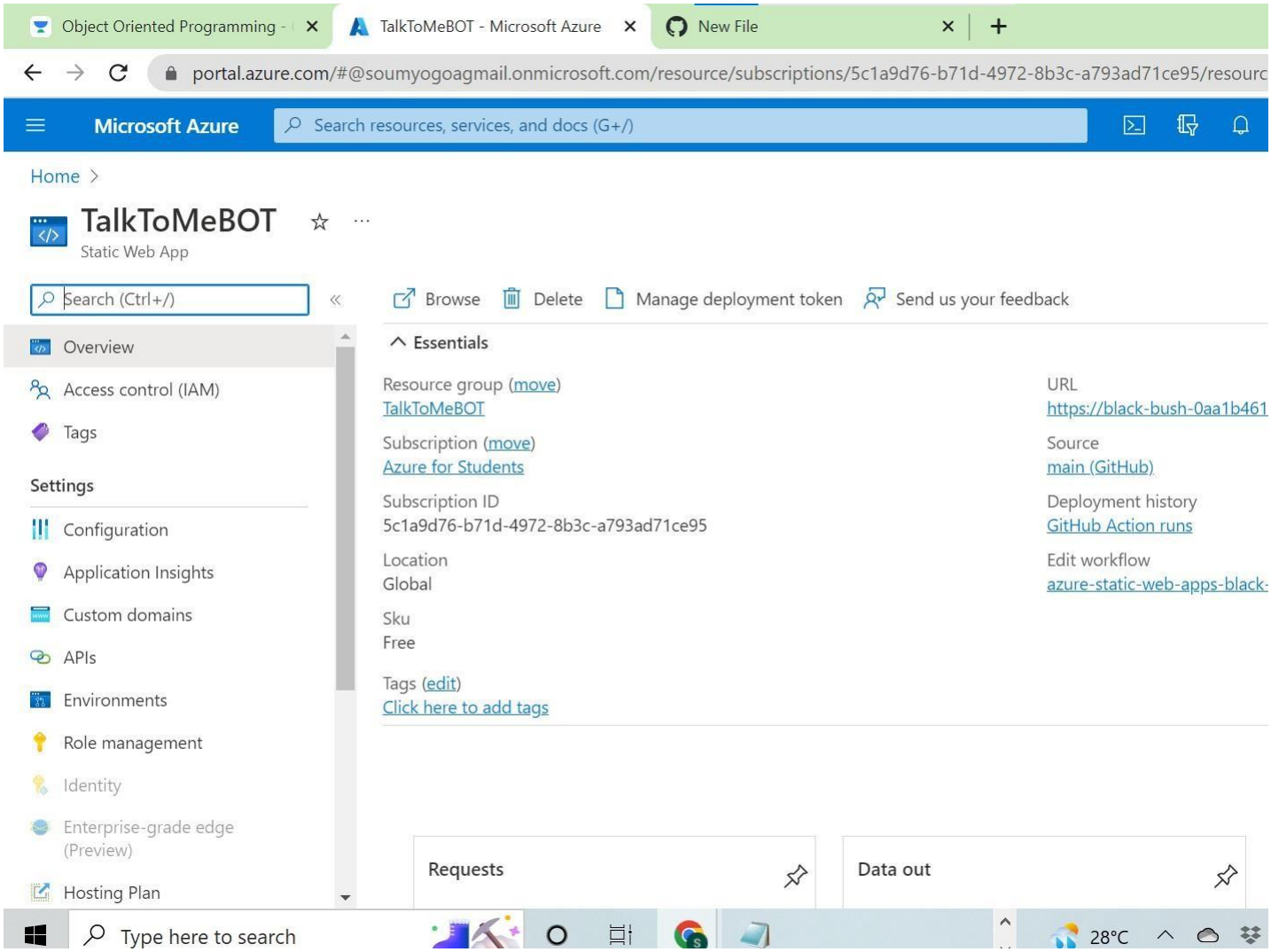


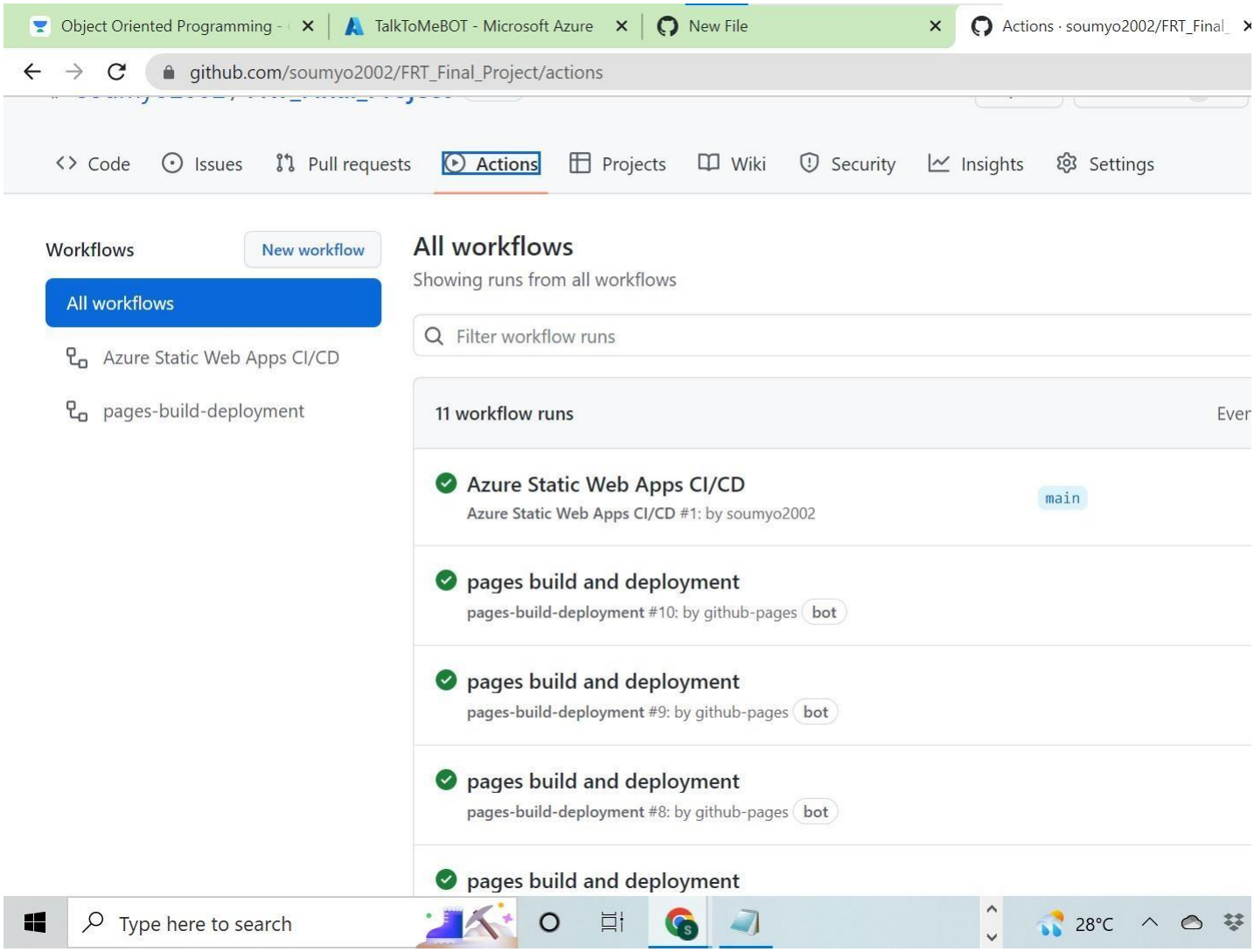
7th step:Testing if the bot is working or not



8th step:Created Static web app



9th step:Static web app successfully connected to GitHub



Project Link:

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