

**NITYA NAND JHA (INNJHF)**

**SYSTEM ENGINEER**

**IDSO**

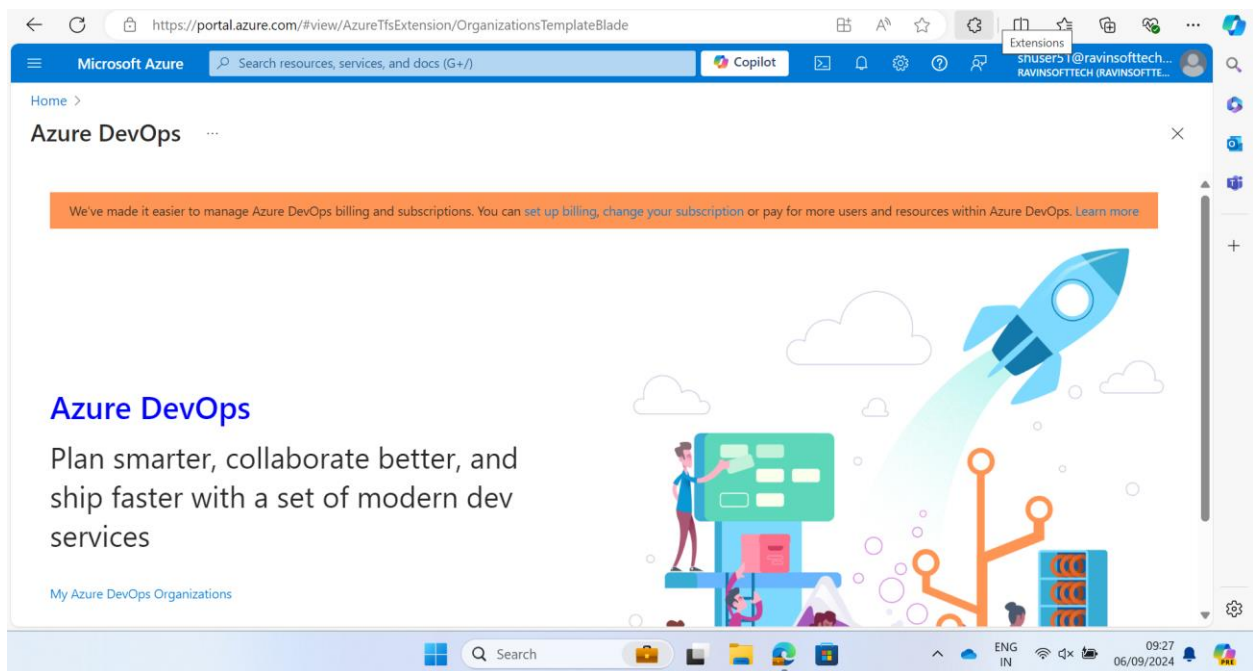
**Objective: Complete total 18 tasks under two main topics**

**Status: 18/18 completed**

**Projected Skills: Manual testing, VM Creation, Cloud concepts, GitHub Actions, SDLC, and Agile.**

## **Task-1: SDLC, Agile, and Software Testing**

### **1. Open Azure DevOps**



### **2. Create an Azure Virtual Machine**

← ↻ 🔍 <https://portal.azure.com/#create/Microsoft.VirtualMachine-ARM> Microsoft Azure Search resources, services, and docs (G+)

Home > Virtual machines >

## Create a virtual machine

Validation passed

Help me create a low cost VM | Help me create a VM optimized for high availability | Help me choose the right VM size for my workload

**Basics**

Subscription	RDBH
Resource group	RDBH
Virtual machine name	NityaVM
Region	East US
Availability options	Availability zone
Zone options	Self-selected zone
Availability zone	1
Security type	Trusted launch virtual machines
Enable secure boot	Yes
Enable vTPM	Yes
Integrity monitoring	No
Image	Windows 10 Pro, version 22H2 - Gen2
VM architecture	x64
Size	Standard B2s (2 vcpus, 4 GiB memory)

< Previous | Next > | **Create**

[Download a template for automation](#) | [Give feedback](#)

← ↻ 🔍 <https://portal.azure.com/#view/HubsExtension/DeploymentDetailsBlade/~/overview/id/%2Fsubscriptions...> Microsoft Azure Search resources, services, and docs (G+)

Home >

## CreateVm-MicrosoftWindowsDesktop.Windows-10-win10-20240906140106 | Overview

Deployment

Search x << Delete Cancel Redeploy Download Refresh

**Overview**

- Inputs
- Outputs
- Template

Deployment is in progress

Deployment name: CreateVm-MicrosoftWindowsDesktop.Windows... Start time: 06/09/2024, 14:03:08  
Subscription: RDBH Correlation ID: 5678741d-5ac4-4c4c-863d-d2027e  
Resource group: RDBH

Deployment details

Resource	Type	Status	Operation details
No results.			

Give feedback  
[Tell us about your experience with deployment](#)

**Microsoft Defender for Cloud**  
Secure your apps and infrastructure  
[Go to Microsoft Defender for Cloud >](#)

**Free Microsoft tutorials**  
[Start learning today >](#)

**Work with an expert**  
Azure experts are service provider partners who can help manage your assets on Azure and be your first line of support.  
[Find an Azure expert >](#)

[Home](#)

## CreateVm-MicrosoftWindowsDesktop.Windows-10-win10-20240906140106 | Overview

Deployment

Search resources, services, and docs (G+)

Copilot

SHUSER51@ravinsofttech...  
RAVINSOFTTECH (RAVINSOFTTECH...)

Search

Delete Cancel Redeploy Download Refresh

- Overview
- Inputs
- Outputs
- Template

### Deployment is in progress

Deployment name: CreateVm-MicrosoftWindowsDesktop.Windows-10-win10-20240906140106  
Subscription: RDBH  
Resource group: RDBH

Start time: 06/09/2024, 14:03:08  
Correlation ID: 5678741d-Sac4-4c4c-863d-d2027e

#### Deployment details

Resource	Type	Status	Operation details
nityavm916_z1	Microsoft.Network/network...	Created	<a href="#">Operation details</a>
NityaVM	Microsoft.Network/virtual...	OK	<a href="#">Operation details</a>
NityaVM-ip	Microsoft.Network/public...	OK	<a href="#">Operation details</a>
NityaVM-nsg	Microsoft.Network/network...	OK	<a href="#">Operation details</a>

Give feedback  
[Tell us about your experience with deployment](#)

**Microsoft Defender for Cloud**  
Secure your apps and infrastructure  
[Go to Microsoft Defender for Cloud >](#)

**Free Microsoft tutorials**  
[Start learning today >](#)

**Work with an expert**  
Azure experts are service provider partners who can help manage your assets on Azure and be your first line of support.  
[Find an Azure expert >](#)

### 3. Create 5 user stories

The image displays two screenshots of the Azure DevOps web interface, specifically the 'Work items' section for a project named 'NityaTest'.

**Top Screenshot:** Shows a user story titled '40 OrangeHRM' with ID '40'. The story is assigned to 'Unassigned' and has a state of 'New'. The description is 'Final Assessment'. The 'Planning' section shows 'Priority 1', 'Risk', 'Effort', and 'Business Value'. The 'Discussion' section has a placeholder for a comment.

**Bottom Screenshot:** Shows the same user story, but with additional configuration. The 'Classification' section shows 'Value area' and 'Business'. The 'Child' section lists five related user stories: '47 User Story -3', '42 User Story-1', '34 User Story-2', '38 User Story-4', and '69 User Story-5'. Each child story is marked as 'New' and shows its update time.

### 4. Create 25 test cases







Browser address bar: [https://dev.azure.com/shuser510430/NityaTest/\\_workitems/edit/58/](https://dev.azure.com/shuser510430/NityaTest/_workitems/edit/58/)

Azure DevOps breadcrumb: shuser510430 / NityaTest / Boards / Work items

Search bar: Search

Left sidebar (Navigation):

- Overview
- Boards
- Work items (Selected)
- Boards
- Backlogs
- Sprints
- Queries
- Delivery Plans
- Analytics views
- Repos
- Pipelines
- Test Plans
- Project settings

Main content area:

Try the New Boards Hub for improved performance, accessibility, and new features. [Click here](#) to learn more.

2 of 5

Recently updated | [Back to Work Items](#)

USER STORY 58

58 User Story-4

Assigned to: Unassigned | 0 comments | [Add tag](#)

Buttons: Save, Follow, Refresh, etc.

Metadata:

State	Reason	Area
New	New	NityaTest
	New	NityaTest

Updated by shuser51: Just now

Details | [Link](#) | [Copy](#)

Acceptance Criteria

[Click to add Acceptance Criteria](#)

Discussion

Parent

- 40 OrangeHRM Updated 3 minutes ago

Child (10)

- 60 Define Requirements Updated 20 minutes ago
- 61 Design Updated 20 minutes ago
- 62 Development Updated 20 minutes ago
- 59 Planning & Analysis Updated 20 minutes ago
- 63 Testing Updated 19 minutes ago

[Show more \(6 of 11\)](#)



The image displays two screenshots of the Azure DevOps interface, specifically the 'Work items' section for 'User Story-5' (ID 69) under the 'NityaTest' project. The interface is shown in a web browser window with the URL [https://dev.azure.com/shuser510430/NityaTest/\\_workitems/edit/69/](https://dev.azure.com/shuser510430/NityaTest/_workitems/edit/69/).

**Top Screenshot:** The 'Description' tab is active, showing the user story text: "As a user, I want to view, edit, and save my personal information, so that I can keep my profile up-to-date and accurate." The 'Planning' tab shows 'Story Points' and 'Priority' (2). The 'Deployment' tab shows a link to track releases associated with this work item.

**Bottom Screenshot:** The 'Acceptance Criteria' tab is active, showing the criteria: "Salary: Users can view salary details." and "Report-to: Users can view their reporting manager's information." The 'Discussion' tab is also visible. On the right, a list of child tasks is shown, including '71 Define Requirements', '72 Design', '73 Development', '70 Planning & Analysis', and '74 Testing'.

## 5. Define tasks

https://dev.azure.com/shuser510430/NityaTest/\_workitems/recentlyupdated/

Azure DevOps shuser510430 / NityaTest / Boards / Work items

Try the New Boards Hub for improved performance, accessibility, and new features. [Click here](#) to learn more.

Work items

Recently updated | + New Work Item | Open filtered view in Queries | Column Options | Import Work Items

Filter by keyword

ID	Title	Assigned To	State	Area Path
79	Verify Viewing and Editing "Report to" Information	shuser51	Design	NityaTest
78	Verify Adding a Qualification	shuser51	Design	NityaTest
77	Verify Editing Contact Details	shuser51	Design	NityaTest
76	Verify Adding an Emergency Contact	shuser51	Design	NityaTest
75	Verify Editing Personal Details	shuser51	Design	NityaTest
68	Verify Search by Status	shuser51	Design	NityaTest
67	Verify Password and Confirm Password Match	shuser51	Design	NityaTest
66	Verify Adding a New User	shuser51	Design	NityaTest
65	Verify Search by User Role	shuser51	Design	NityaTest

## 6. Create Defect reports

https://opensource-demo.orangehrmlive.com/web/index.php/auth/login

OrangeHRM  
OPEN SOURCE HR MANAGEMENT

Login

Username : Admin  
Password : admin123

Username

Password

Login

[Forgot your password?](#)

Azure DevOps shuser510430 / NityaTest / Boards / Work items

Try the New Boards Hub for improved performance, accessibility, and new features. [Click here](#) to learn more.

Work items

Recently updated | + New Work Item | Open filtered view in Queries | Column Options | Import Work Items

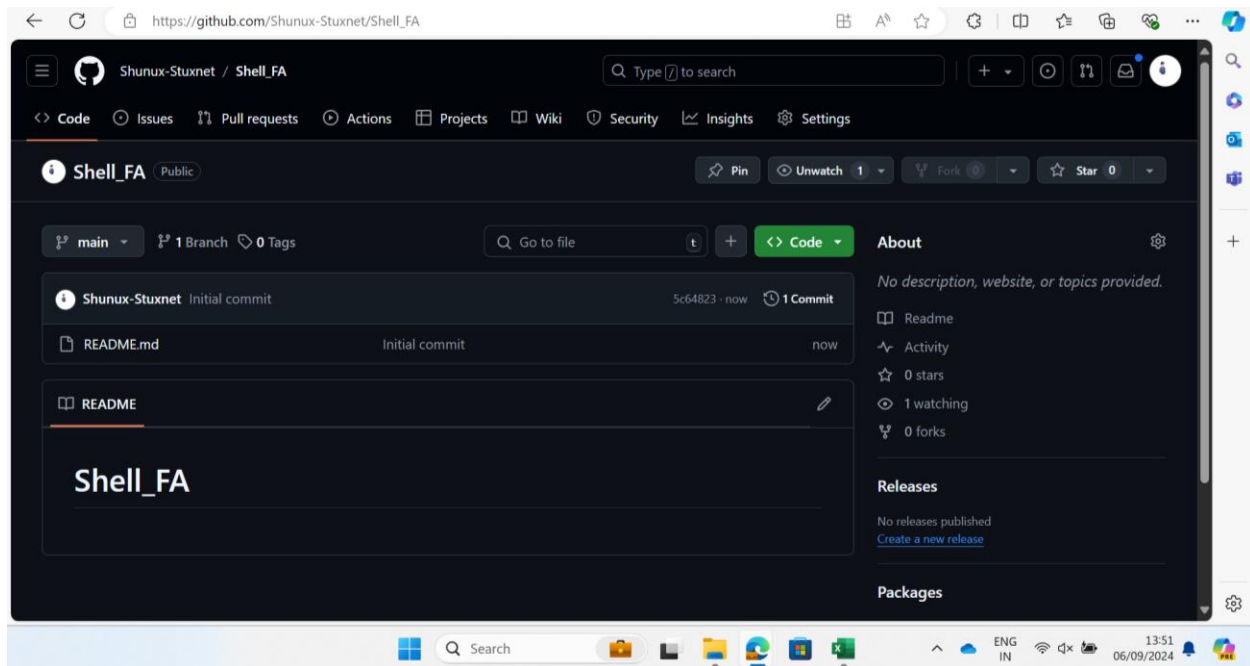
Filter by keyword

ID	Title	Assigned To	State	Area Path
46	Attachment for claim isn't asked	Unassigned	New	NityaTest
33	Default credentials are leaked	Unassigned	New	NityaTest

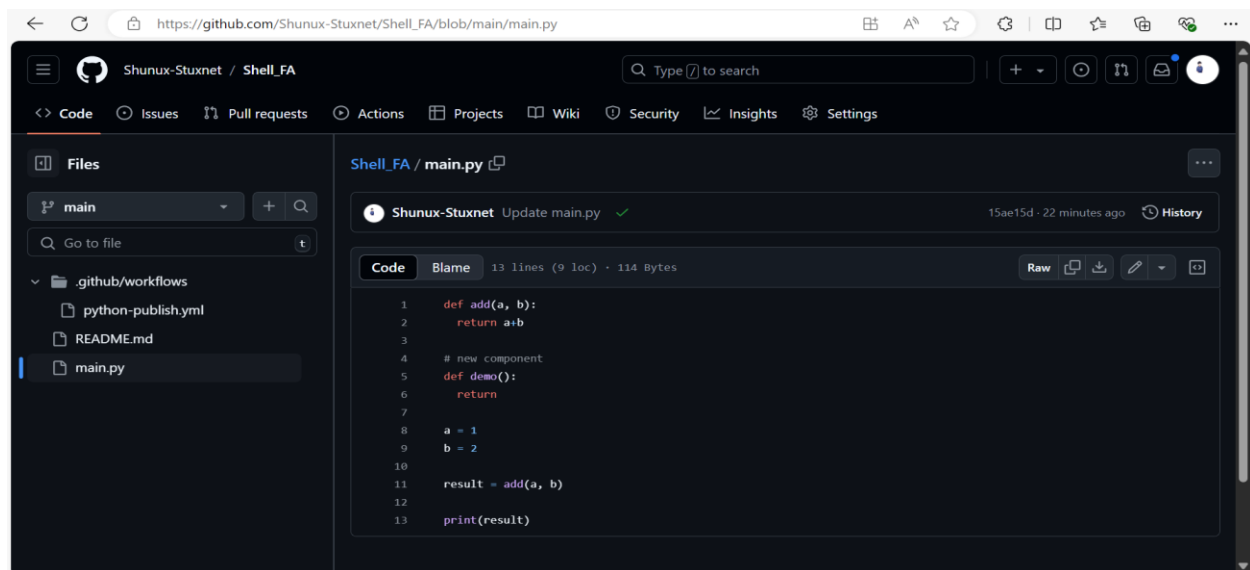


## Task-2: Implementing the CI/CD Pipeline using GitHub Actions

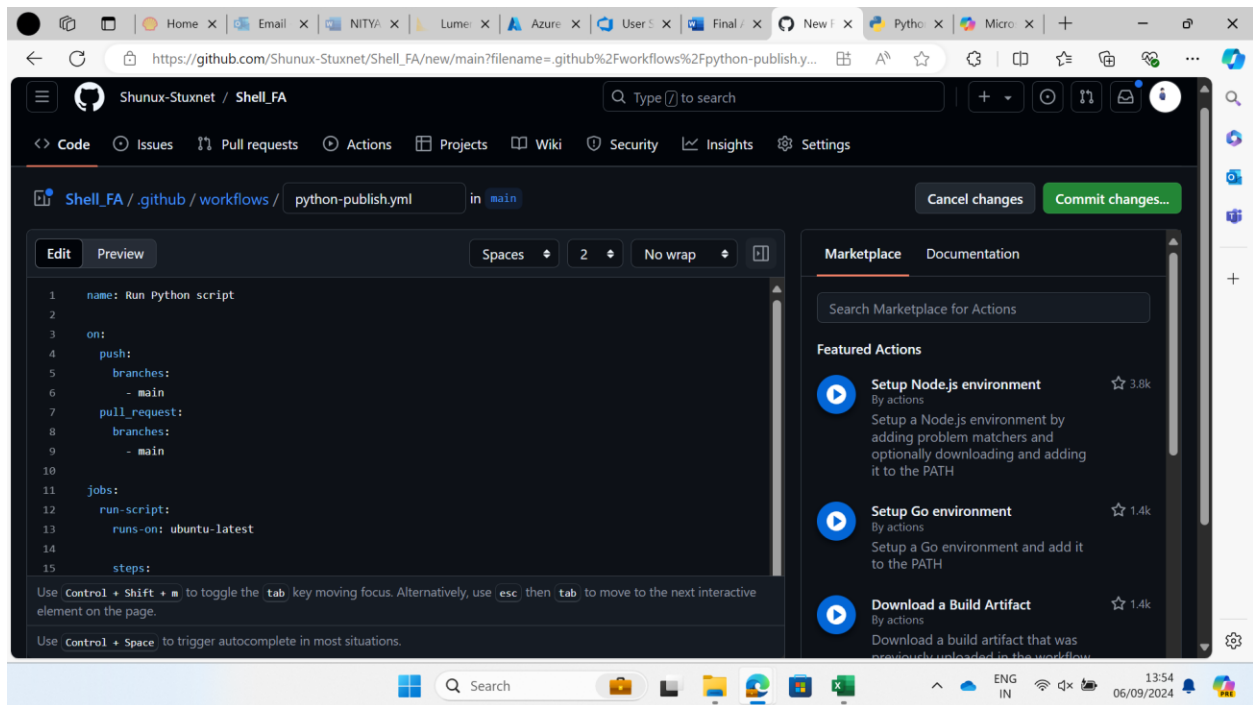
### 1. Create new Repository



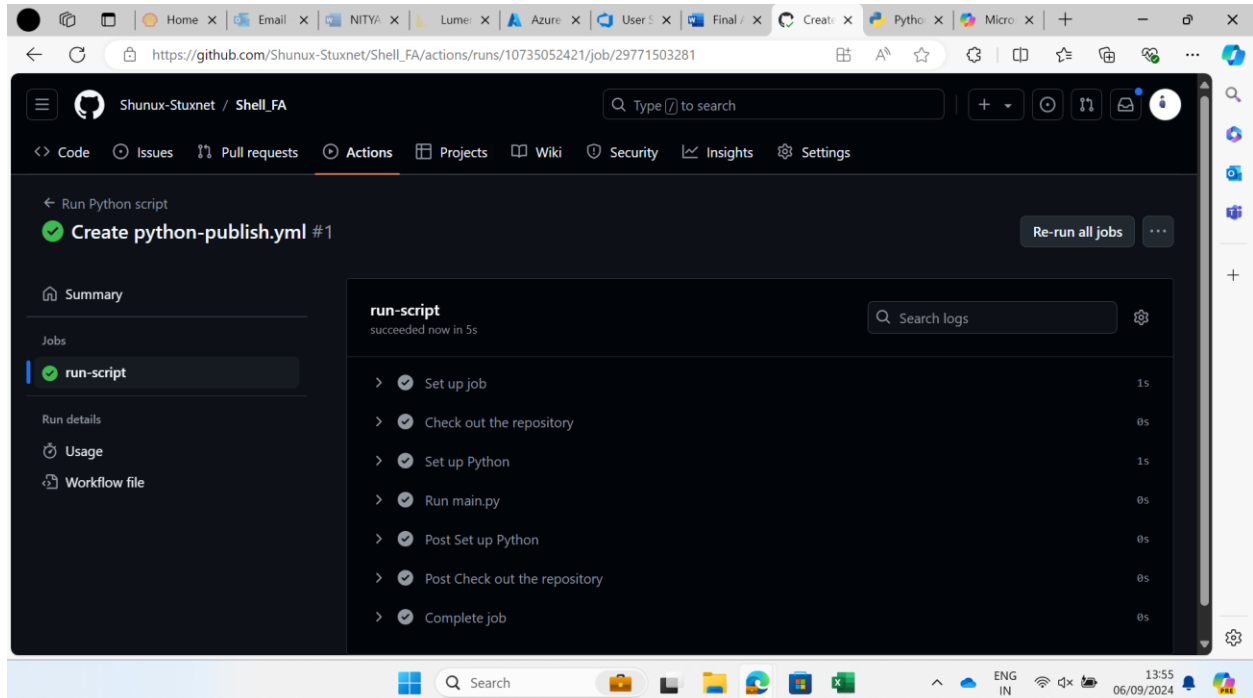
### 2. Create a code base



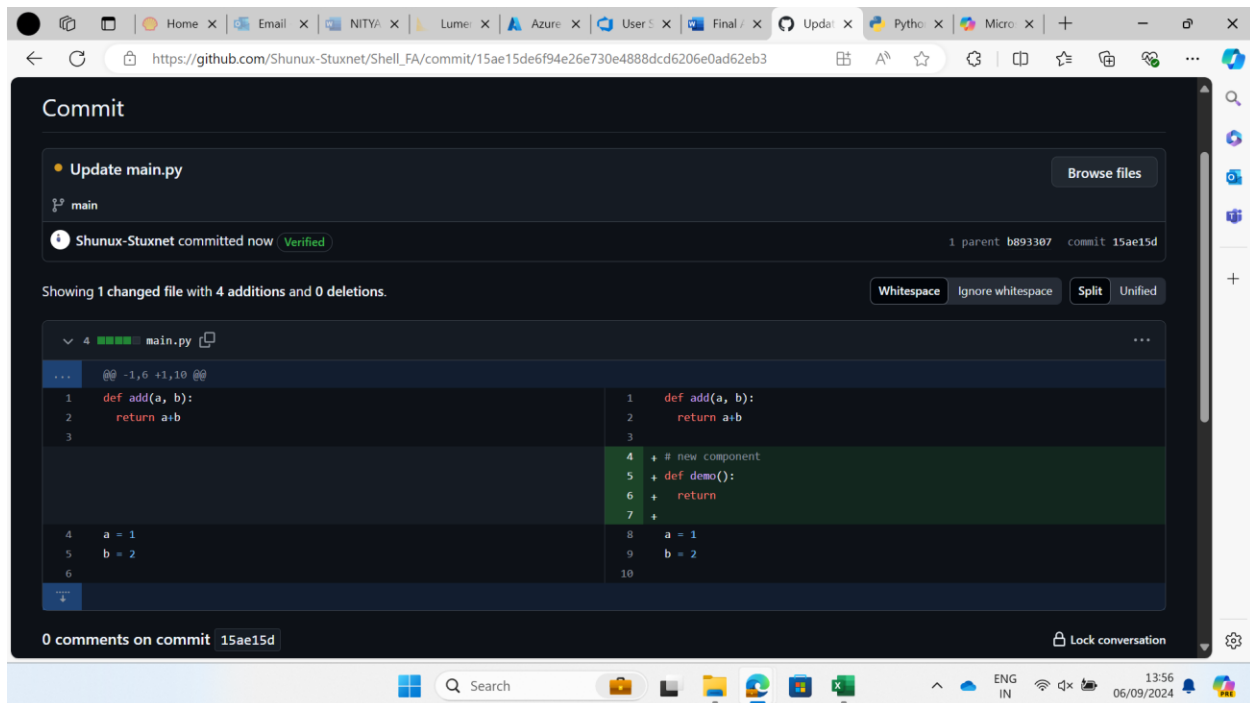
### 3. Create a new workflow



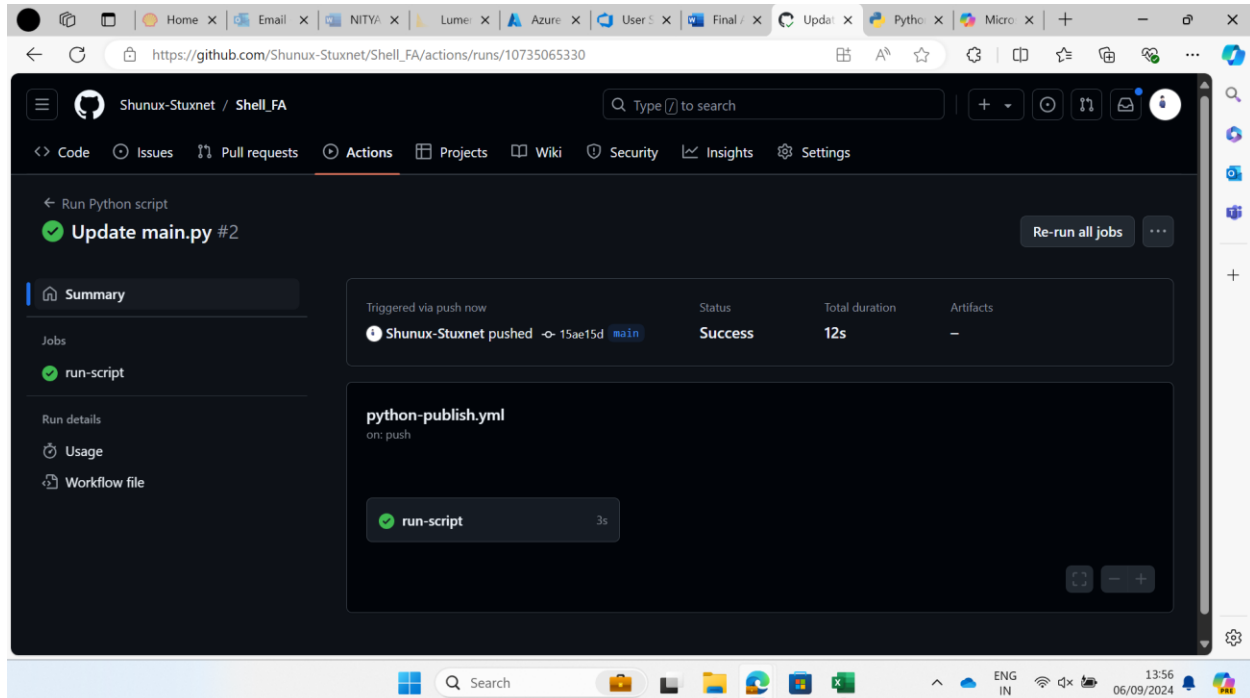
#### 4. Monitor the build



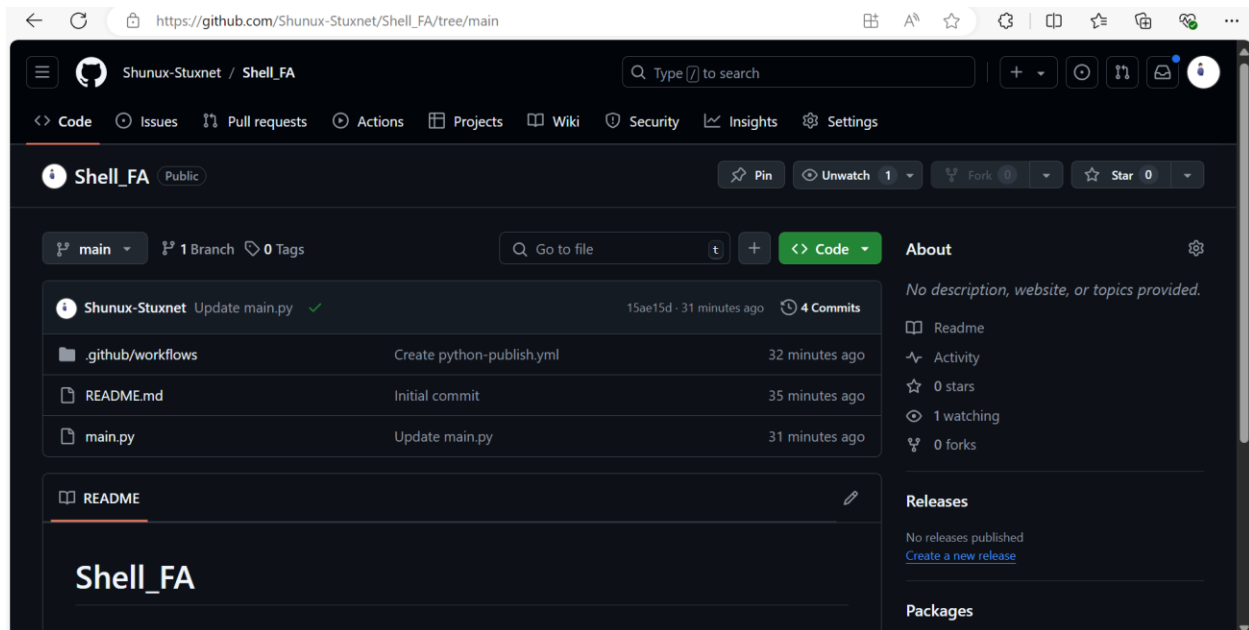
#### 5. Modify the code in your repository



## 6. Commit it and monitor the build result



## 7. Updated Screenshot



8. Contents are added to repository