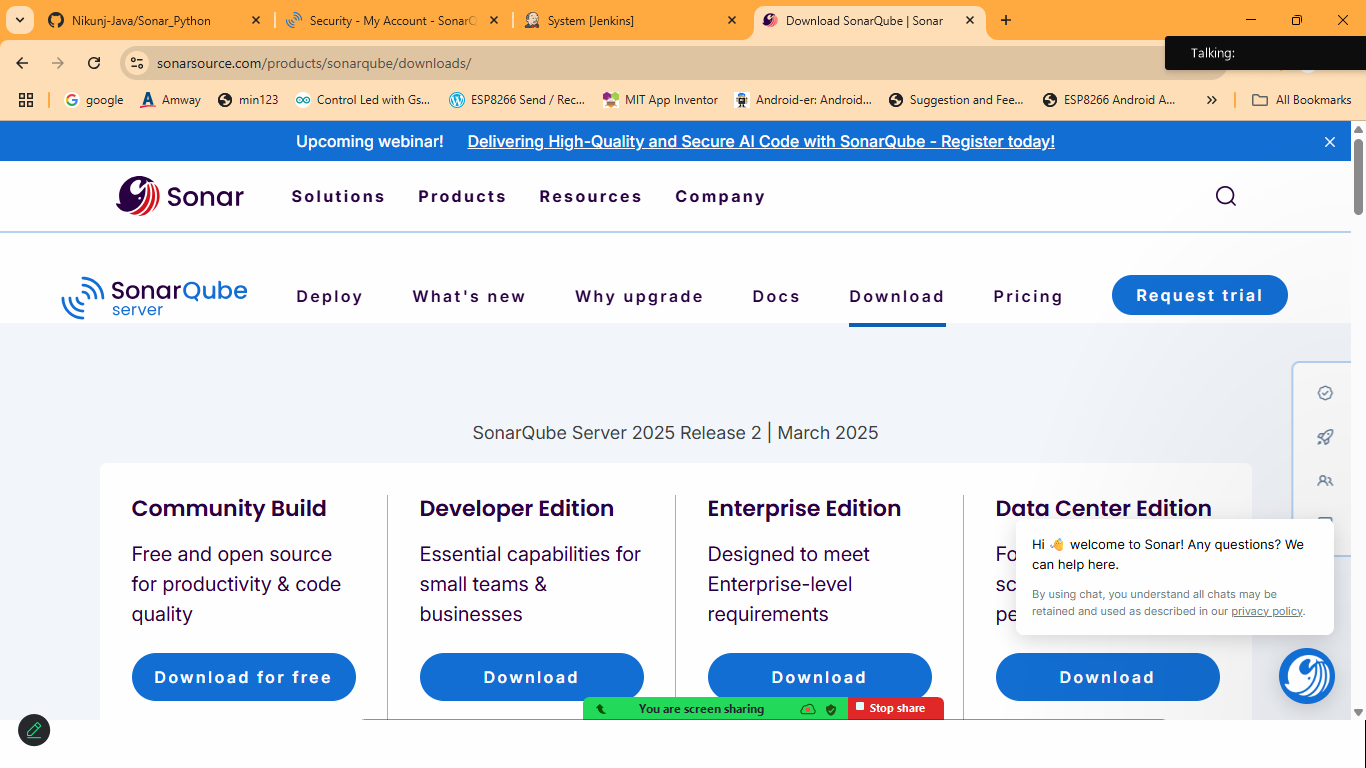
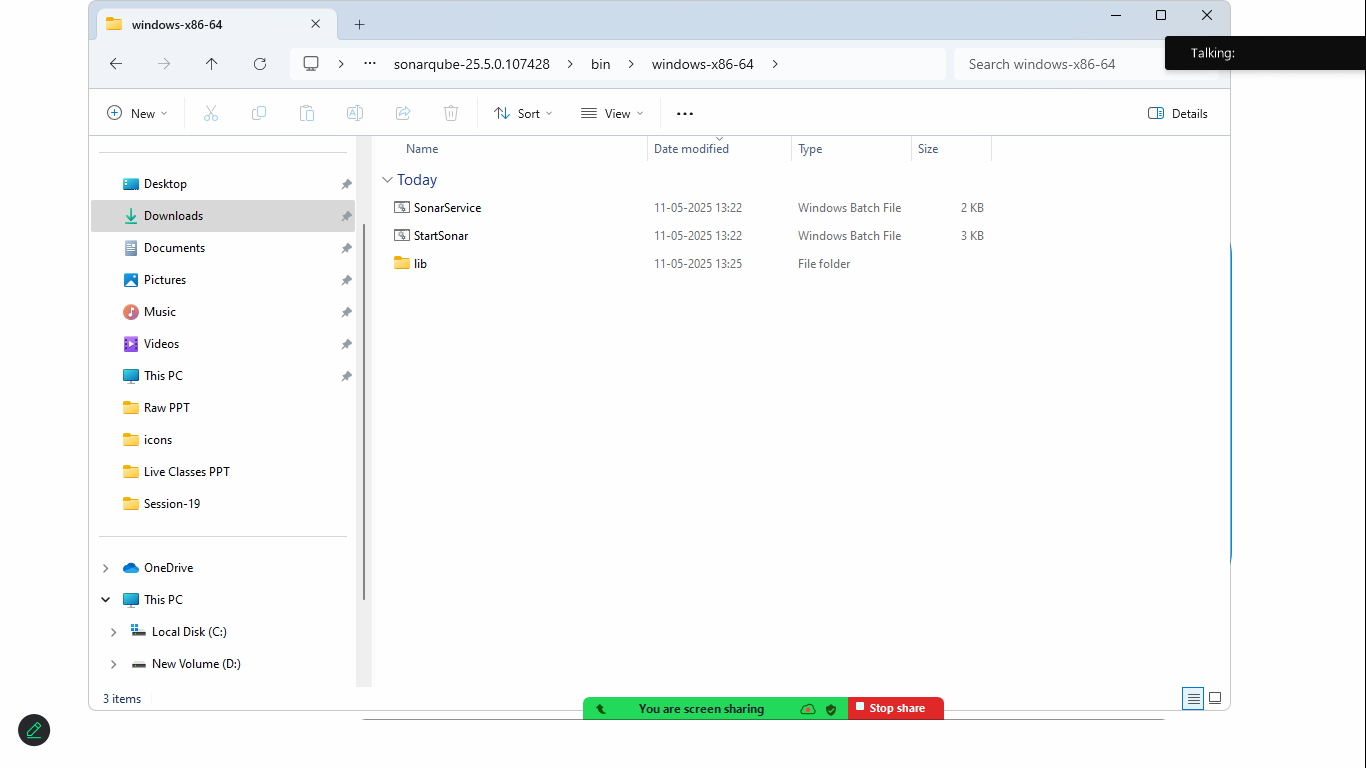
Download Sonar Cube Server from:

<https://www.sonarsource.com/products/sonarqube/downloads/>



Extract it on C: Drive

Goto> bin>choose your os> Double Click on StartSonar



Goto>browser>http://localhost:9000

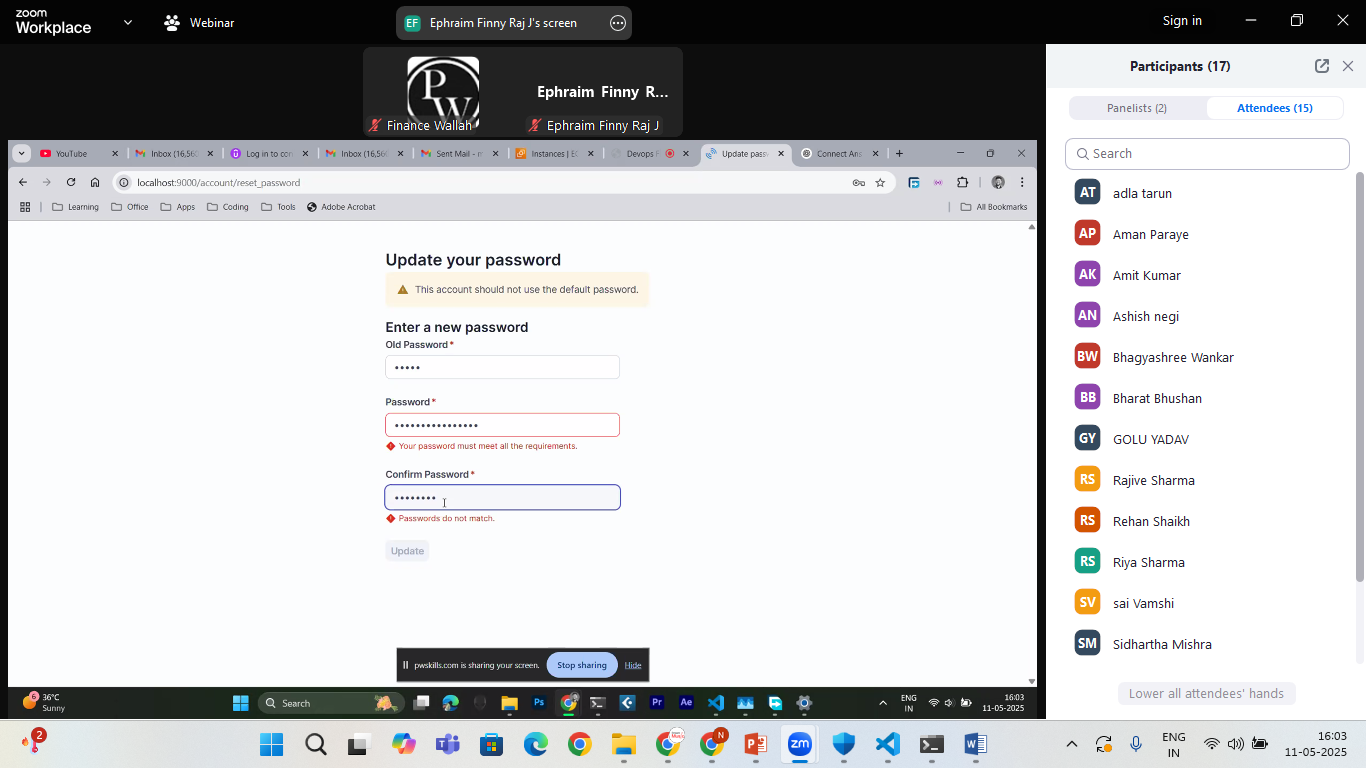
Make sue: JAVA 17 is installed on Your machine

Use Default username and password :

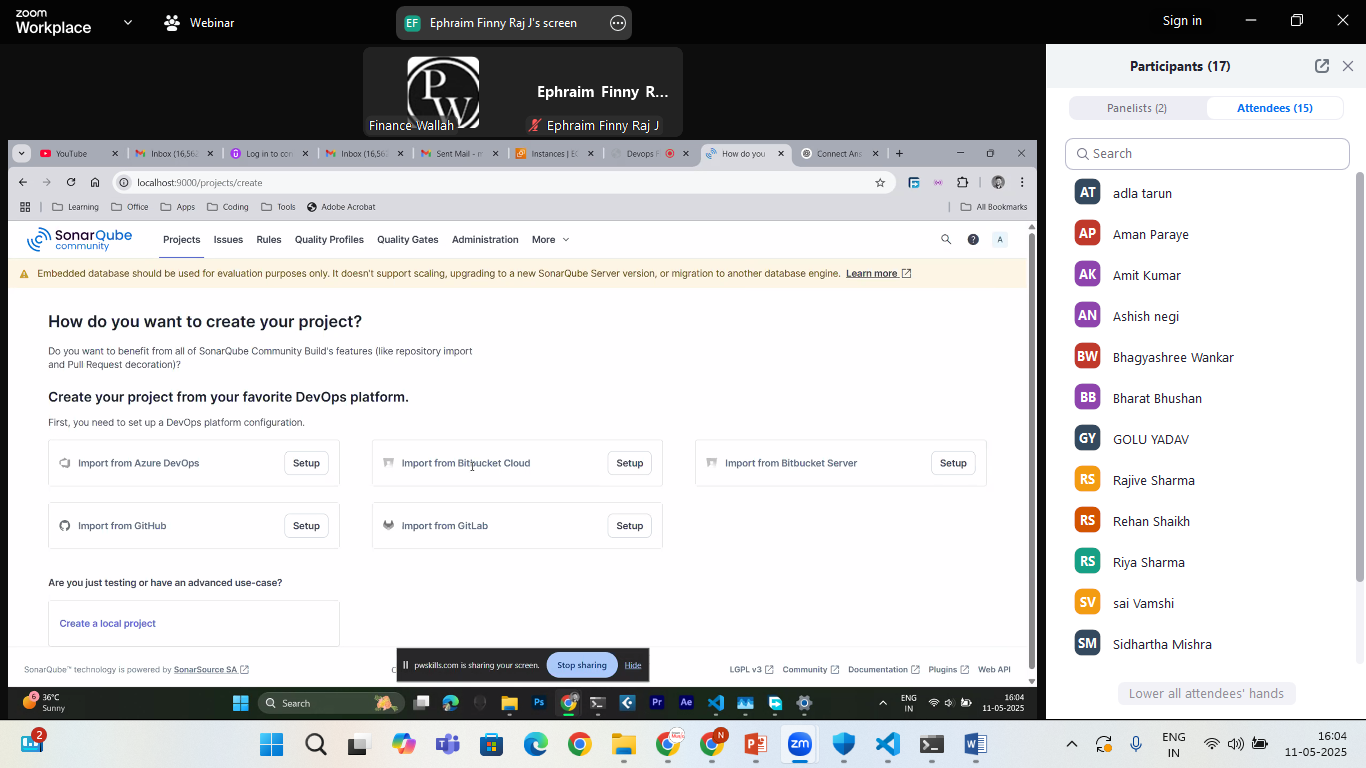
Username: admin

Password: admin

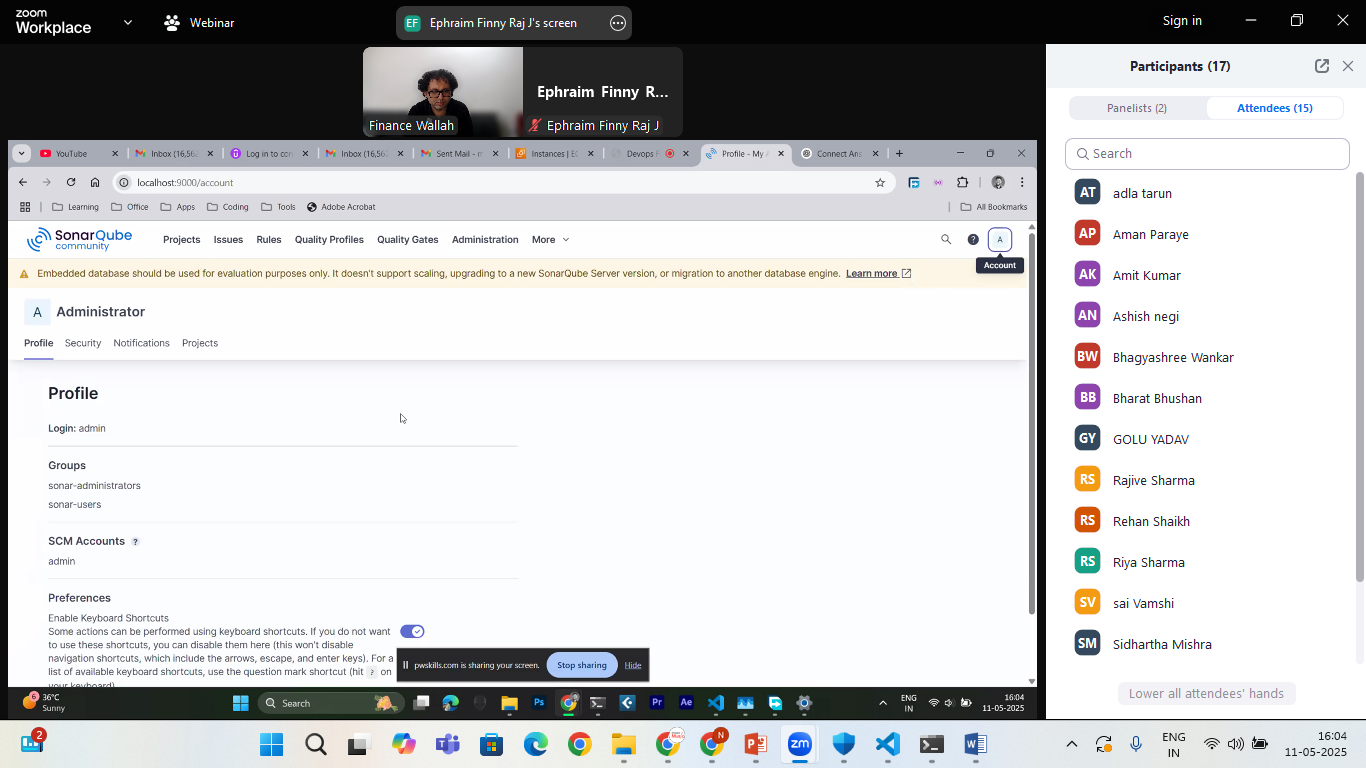
Now update the password

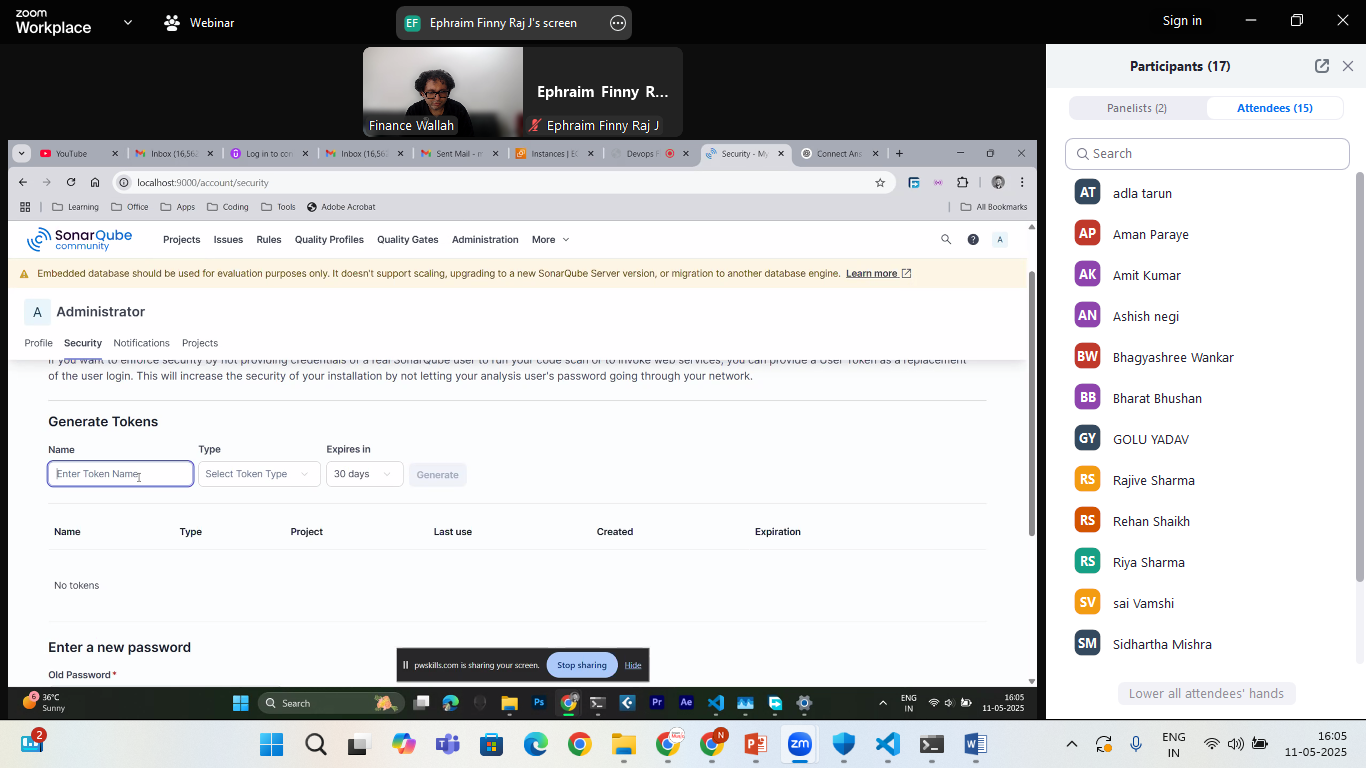


Goto>dashboard

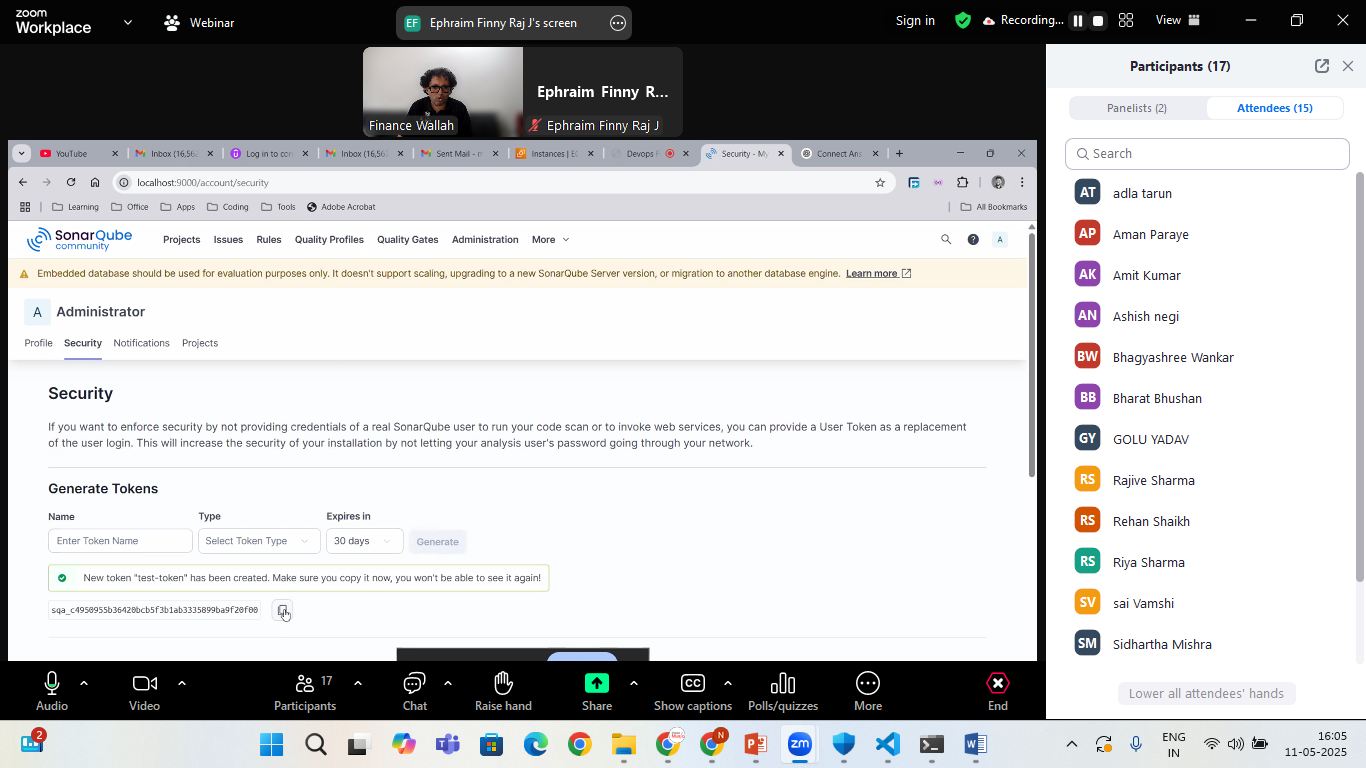


Click on Your Profile>MyAccount>Security

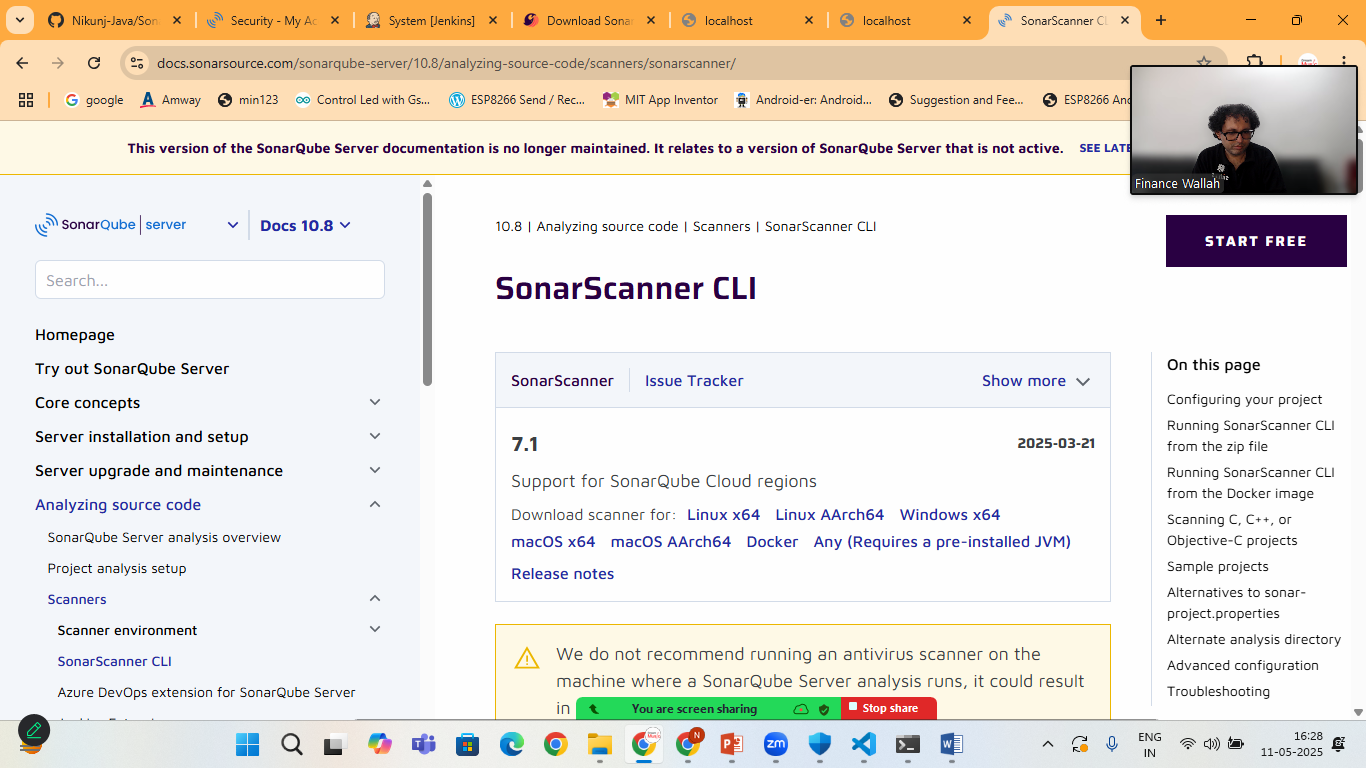




Generate token using by default option and save the token to secure place in txt file

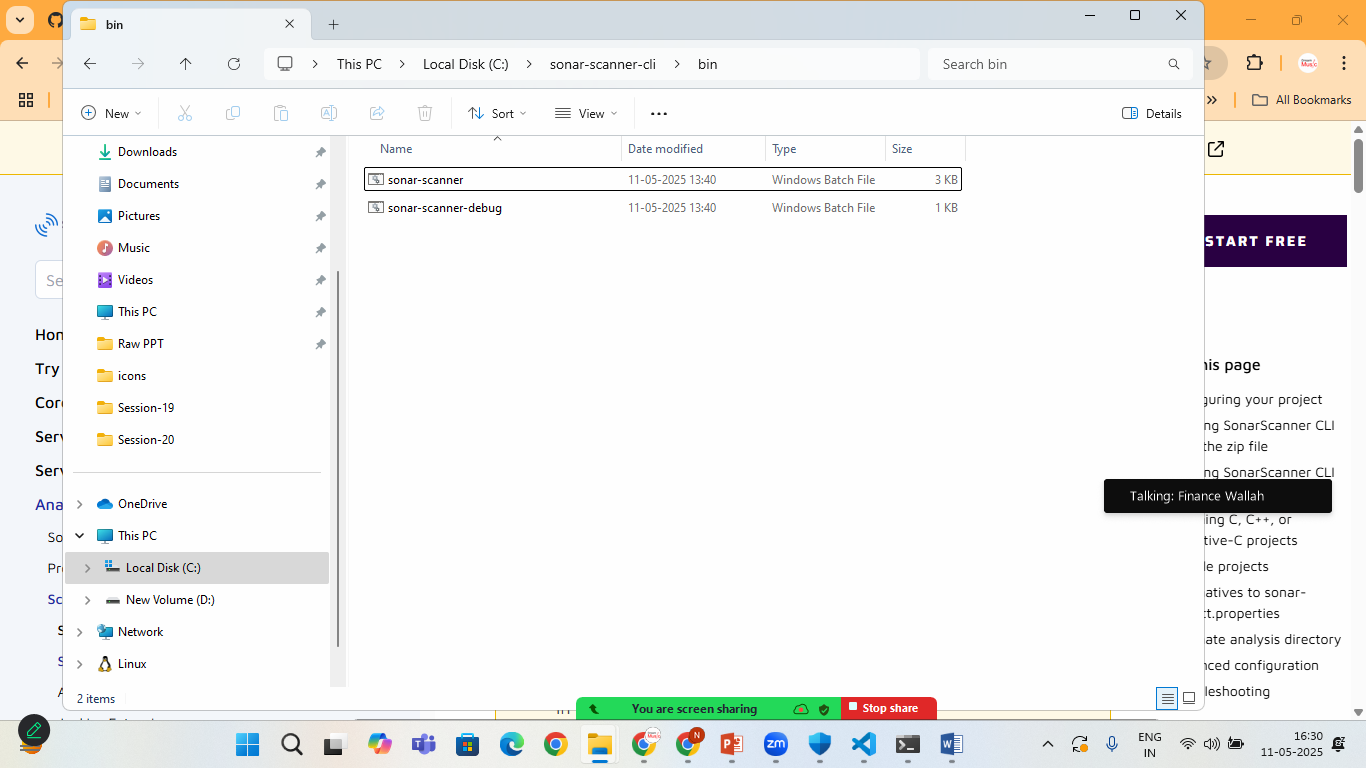


Also download Sonar-scanner in your machine and set the environment path



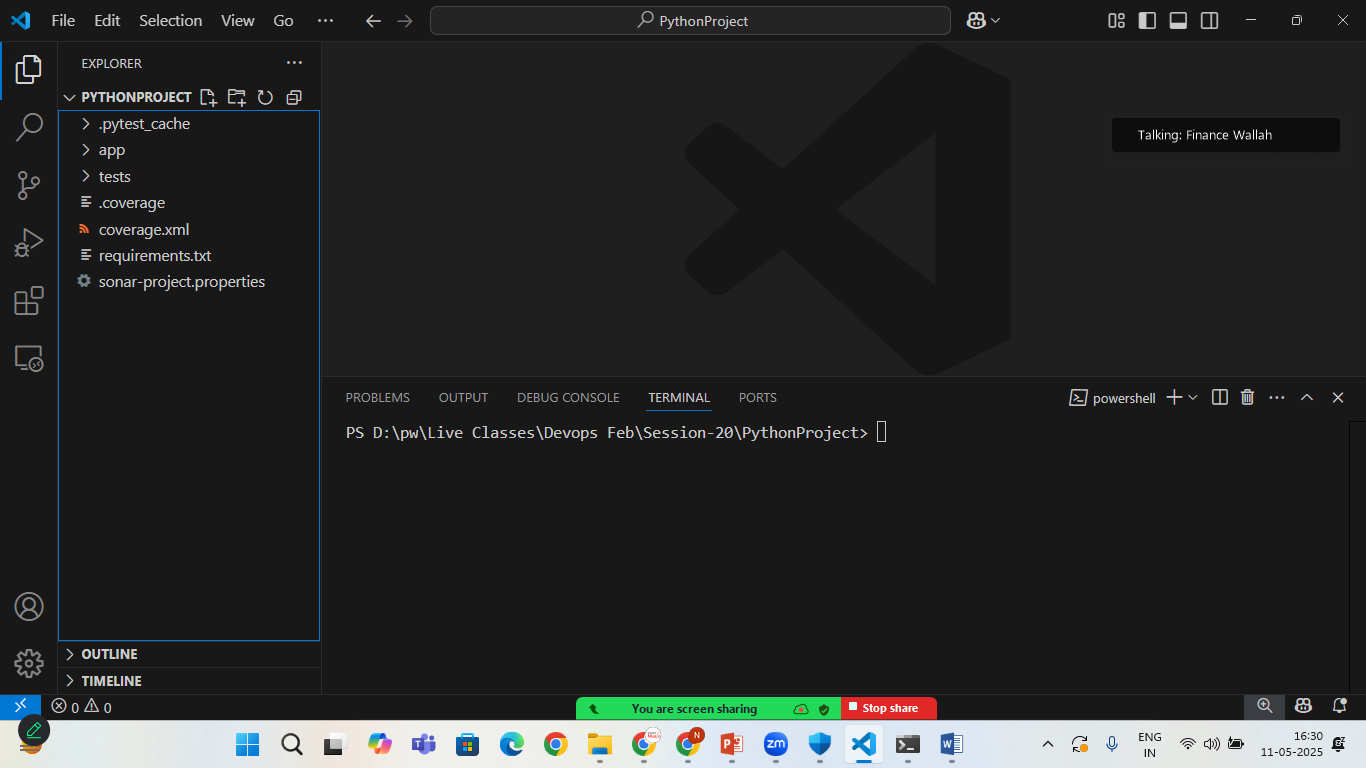
Choose your machine version and download

Extract it and run



Lets create Python Program and Its Testing

Create project structure like this:



Calculator.py

def add(a,b):

    return a+b

def subtract(a,b):

    return a-b

def divide(a,b):

        if b==0:

            raise ValueError("Cannot devide by zero")

        return a/b

def multiply(a,b):

    return a\*b

test\_calculator.py

import pytest

from app.calculator import add, subtract, divide, multiply

def test\_add():

    assert add(2,3) == 5

def test\_subtract():

    assert subtract(10,2) == 8

def test\_divide():

    assert divide(20,10) == 2

def test\_multiply():

    assert multiply(3,9) == 27

def test\_divide\_by\_zero():

    with pytest.raises(ValueError):

        divide(10,0)

create requirements.txt

pytest

open the terminal and run

* pip install –r requirements.txt
* coverage run –m pytest
* coverage xml

finally run

>sonar-scanner