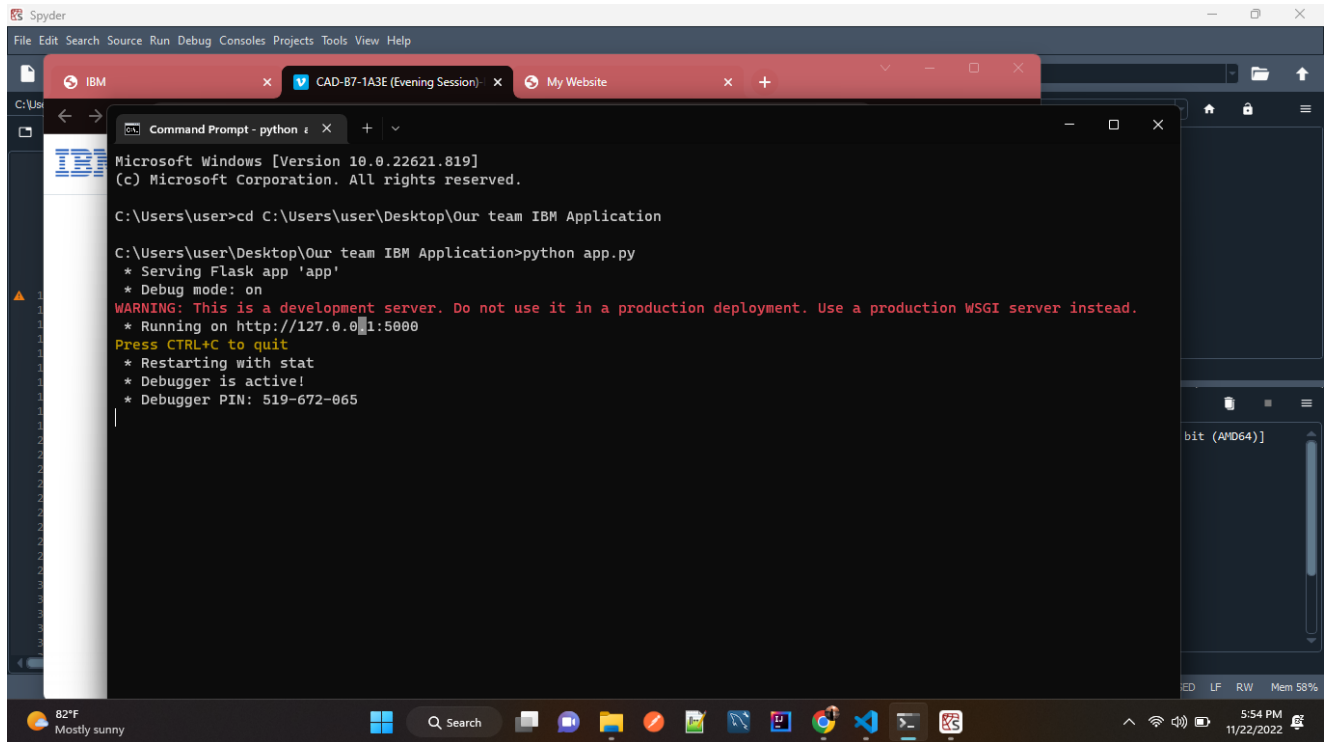


| | |
|--------------|--------------------------------------|
| Team ID | PNT2022TMID08585 |
| Project Name | Personal Expense Tracker Application |

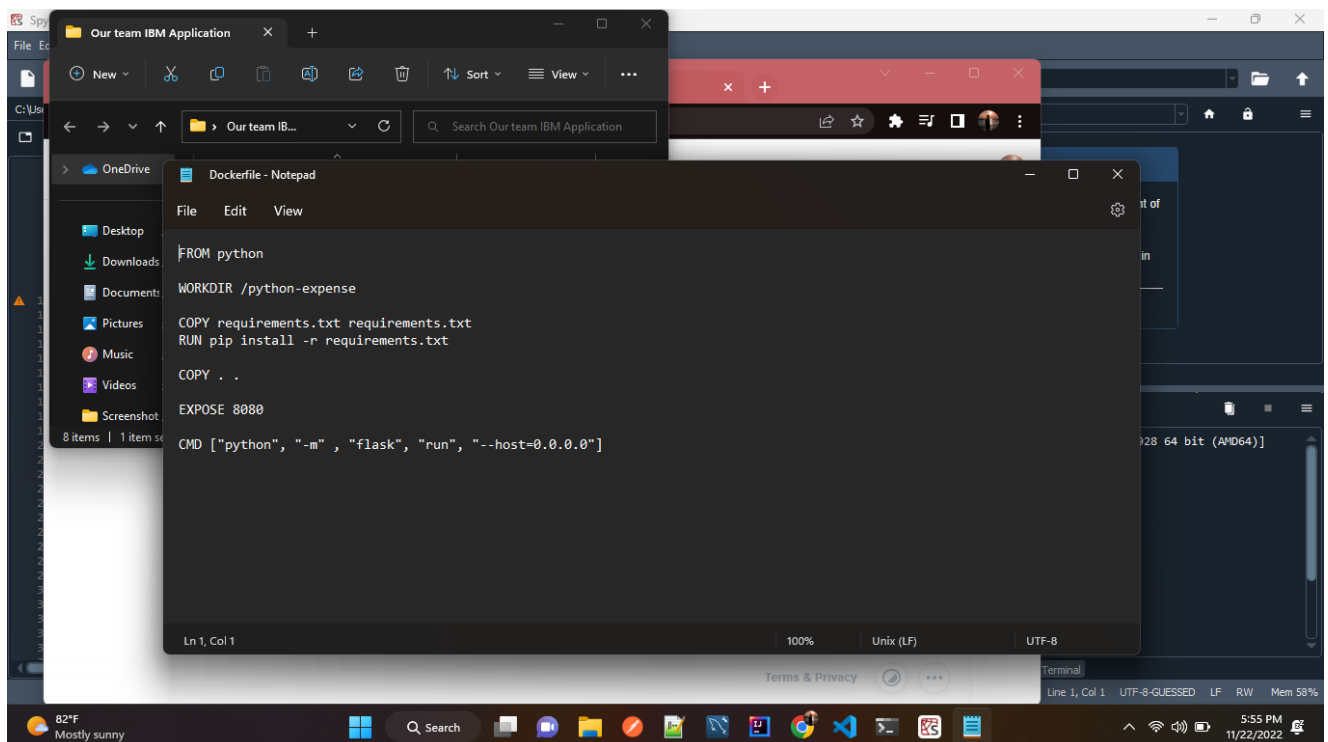


The screenshot shows the Spyder IDE interface. A Command Prompt window is open, displaying the following text:

```
Microsoft Windows [Version 10.0.22621.819]
(c) Microsoft Corporation. All rights reserved.

C:\Users\user>cd C:\Users\user\Desktop\Our team IBM Application

C:\Users\user\Desktop\Our team IBM Application>python app.py
* Serving Flask app 'app'
* Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on http://127.0.0.1:5000
Press CTRL+C to quit
* Restarting with stat
* Debugger is active!
* Debugger PIN: 519-672-065
```



The screenshot shows the Spyder IDE interface. A File Explorer window is open, displaying the contents of the 'Our team IBM Application' folder. A Notepad window is also open, displaying the following text:

```
FROM python
WORKDIR /python-expense
COPY requirements.txt requirements.txt
RUN pip install -r requirements.txt
COPY . .
EXPOSE 8080
CMD ["python", "-m", "flask", "run", "--host=0.0.0.0"]
```

```
Command Prompt
C:\Users\user\Desktop\Our team IBM Application>docker build -t expense-tracker-01 .
[+] Building 313.2s (11/11) FINISHED
=> [internal] load build definition from Dockerfile 0.0s
=> => transferring dockerfile: 231B 0.0s
=> [internal] load .dockerignore 0.0s
=> => transferring context: 2B 0.0s
=> [internal] load metadata for docker.io/library/python:latest 3.4s
=> [auth] library/python:pull token for registry-1.docker.io 0.0s
=> [1/5] FROM docker.io/library/python@sha256:10fc14aa6ae69f69e4c953cfff9b0964843d8c163950491d2138af891377bc1d 123.8s
=> resolve docker.io/library/python@sha256:10fc14aa6ae69f69e4c953cfff9b0964843d8c163950491d2138af891377bc1d 0.0s
=> sha256:ee4e7a0fc1c354d9996229a765d0785df2671252c1822ae111015d37dcf5f765b 8.52kB / 8.52kB 0.0s
=> sha256:a8ca11554fce00d9177da2d76307bdc06df7faeb84529755c648ac4886192ed1 55.04MB / 55.04MB 88.7s
=> sha256:e4e46864aba2e62ba7c75965e4aa33ec856e1b1074dda6b478101c577b63abd 5.16MB / 5.16MB 7.6s
=> sha256:10fc14aa6ae69f69e4c953cfff9b0964843d8c163950491d2138af891377bc1d 2.14kB / 2.14kB 0.0s
=> sha256:c85a0be79bfb309d1f05dc40b447aa82b604593531fed1e7e12e4bef63483a5 10.88MB / 10.88MB 9.5s
=> sha256:3f53d697b58165ec41a16cdc5f9e29a32ab2695688488862694be0155137446e 2.22kB / 2.22kB 0.0s
=> sha256:195ea6a58ca87a18477965a6e6a8623112bde82c5b568a29c56ce4581b6e6695 54.59MB / 54.59MB 85.7s
=> sha256:157f16ed0a0c119e5015d22d95fd158bf9e85654611b870b79cca3987442948b 196.87MB / 196.87MB 114.6s
=> sha256:884b144bec286b456b1cd694ccd6adc07c3619b3b84069c4ec575fe213e94a7e 6.29MB / 6.29MB 95.6s
=> sha256:1c469643b609009ff435b3ba0e22f7acdad34837547c33ab301eeaa7993a6ef1 23.25MB / 23.25MB 116.1s
=> extracting sha256:a8ca11554fce00d9177da2d76307bdc06df7faeb84529755c648ac4886192ed1 2.2s
=> extracting sha256:e4e46864aba2e62ba7c75965e4aa33ec856e1b1074dda6b478101c577b63abd 0.3s
=> extracting sha256:c85a0be79bfb309d1f05dc40b447aa82b604593531fed1e7e12e4bef63483a5 0.3s
=> extracting sha256:195ea6a58ca87a18477965a6e6a8623112bde82c5b568a29c56ce4581b6e6695 3.1s
=> sha256:4c8ac982aa8993dae4217bebc9bd25cd97047488572ca84795be03483457208 232B / 232B 96.4s
=> sha256:049db2c7eb8a5bd3833cac2f58c6c72b481f1a0288a8b20527529c4970b52762 3.06MB / 3.06MB 101.8s
=> extracting sha256:157f16ed0a0c119e5015d22d95fd158bf9e85654611b870b79cca3987442948b 6.8s
=> extracting sha256:884b144bec286b456b1cd694ccd6adc07c3619b3b84069c4ec575fe213e94a7e 0.3s
=> extracting sha256:1c469643b609009ff435b3ba0e22f7acdad34837547c33ab301eeaa7993a6ef1 0.8s
=> extracting sha256:4c8ac982aa8993dae4217bebc9bd25cd97047488572ca84795be03483457208 0.8s
=> extracting sha256:049db2c7eb8a5bd3833cac2f58c6c72b481f1a0288a8b20527529c4970b52762 0.3s
=> [internal] load build context 0.1s
=> => transferring context: 2.60MB 0.1s
=> [2/5] WORKDIR /python-expense 0.4s
```

```
Command Prompt
=> sha256:ee4e7a0fc1c354d9996229a765d0785df2671252c1822ae111015d37dcf5f765b 8.52kB / 8.52kB 0.0s
=> sha256:a8ca11554fce00d9177da2d76307bdc06df7faeb84529755c648ac4886192ed1 55.04MB / 55.04MB 88.7s
=> sha256:e4e46864aba2e62ba7c75965e4aa33ec856e1b1074dda6b478101c577b63abd 5.16MB / 5.16MB 7.6s
=> sha256:10fc14aa6ae69f69e4c953cfff9b0964843d8c163950491d2138af891377bc1d 2.14kB / 2.14kB 0.0s
=> sha256:c85a0be79bfb309d1f05dc40b447aa82b604593531fed1e7e12e4bef63483a5 10.88MB / 10.88MB 9.5s
=> sha256:3f53d697b58165ec41a16cdc5f9e29a32ab2695688488862694be0155137446e 2.22kB / 2.22kB 0.0s
=> sha256:195ea6a58ca87a18477965a6e6a8623112bde82c5b568a29c56ce4581b6e6695 54.59MB / 54.59MB 85.7s
=> sha256:157f16ed0a0c119e5015d22d95fd158bf9e85654611b870b79cca3987442948b 196.87MB / 196.87MB 114.6s
=> sha256:884b144bec286b456b1cd694ccd6adc07c3619b3b84069c4ec575fe213e94a7e 6.29MB / 6.29MB 95.6s
=> sha256:1c469643b609009ff435b3ba0e22f7acdad34837547c33ab301eeaa7993a6ef1 23.25MB / 23.25MB 116.1s
=> extracting sha256:a8ca11554fce00d9177da2d76307bdc06df7faeb84529755c648ac4886192ed1 2.2s
=> extracting sha256:e4e46864aba2e62ba7c75965e4aa33ec856e1b1074dda6b478101c577b63abd 0.3s
=> extracting sha256:c85a0be79bfb309d1f05dc40b447aa82b604593531fed1e7e12e4bef63483a5 0.3s
=> extracting sha256:195ea6a58ca87a18477965a6e6a8623112bde82c5b568a29c56ce4581b6e6695 3.1s
=> sha256:4c8ac982aa8993dae4217bebc9bd25cd97047488572ca84795be03483457208 232B / 232B 96.4s
=> sha256:049db2c7eb8a5bd3833cac2f58c6c72b481f1a0288a8b20527529c4970b52762 3.06MB / 3.06MB 101.8s
=> extracting sha256:157f16ed0a0c119e5015d22d95fd158bf9e85654611b870b79cca3987442948b 6.8s
=> extracting sha256:884b144bec286b456b1cd694ccd6adc07c3619b3b84069c4ec575fe213e94a7e 0.3s
=> extracting sha256:1c469643b609009ff435b3ba0e22f7acdad34837547c33ab301eeaa7993a6ef1 0.8s
=> extracting sha256:4c8ac982aa8993dae4217bebc9bd25cd97047488572ca84795be03483457208 0.8s
=> extracting sha256:049db2c7eb8a5bd3833cac2f58c6c72b481f1a0288a8b20527529c4970b52762 0.3s
=> [internal] load build context 0.1s
=> => transferring context: 2.60MB 0.1s
=> [2/5] WORKDIR /python-expense 0.4s
=> [3/5] COPY requirements.txt requirements.txt 0.8s
=> [4/5] RUN pip install -r requirements.txt 184.2s
=> [5/5] COPY . . 0.0s
=> exporting to image 1.1s
=> => exporting layers 1.1s
=> writing image sha256:d5758388aac13d11d02d9c599ef4c37b72696e3d3c871133bc464ff0aba18669 0.0s
=> naming to docker.io/library/expense-tracker-01 0.0s

Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them

C:\Users\user\Desktop\Our team IBM Application>|
```

```
Command Prompt
=> => extracting sha256:a8ca11554fce08d9177da2d76307bdc06df7faeb84529755c648ac4886192ed1 2.2s
=> => extracting sha256:ed4e46864aba2e62ba7c75965e4aa33ec856ee1b1074dda6b478101c577b63abd 0.3s
=> => extracting sha256:c85a0be79bfba309d1f05dc40b447aa82b604593531fed1e7e12e4bef63483a5 0.3s
=> => extracting sha256:195ea6a58ca87a18477965a6e6a8623112bde82c5b568a29c56ce4581b6e6695 3.1s
=> => sha256:4c0ac982aa8993dae4217bebc9bd25cd97047488572ca84795be03483457208 232B / 232B 96.4s
=> => sha256:049db2c7eb8a5bd3833cac2f58c6c72b481f1a0288a8b20527529c4970b52762 3.06MB / 3.06MB 101.8s
=> => extracting sha256:157f16ed0a0c119e5015d22d95fd158bf9e85654611b870b79cca3987442948b 6.8s
=> => extracting sha256:884b144bec286b456b1cd694ccd6adc07c3619b3b84069c4ec575fe213e94a7e 0.3s
=> => extracting sha256:1c469643b609089ff435b3ba0e22f7acdad34837547c33ab301eeaa7993a6ef1 0.8s
=> => extracting sha256:4c0ac982aa8993dae4217bebc9bd25cd97047488572ca84795be03483457208 0.0s
=> => extracting sha256:049db2c7eb8a5bd3833cac2f58c6c72b481f1a0288a8b20527529c4970b52762 0.3s
=> => [internal] load build context 0.1s
=> => transferring context: 2.60MB 0.1s
=> => [2/5] WORKDIR /python-expense 0.4s
=> => [3/5] COPY requirements.txt requirements.txt 0.0s
=> => [4/5] RUN pip install -r requirements.txt 184.2s
=> => [5/5] COPY . . 0.0s
=> => exporting to image 1.1s
=> => exporting layers 1.1s
=> => writing image sha256:d5758388aac13d11d02d9c599ef4c37b72696e3d3c871133bc464ff0aba18869 0.0s
=> => naming to docker.io/library/expense-tracker-01 0.0s

Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them

C:\Users\user\Desktop\Our team IBM Application>docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
expense-tracker-01 latest d5758388aac1 About a minute ago 1.12GB
au.icr.io/jopapp-1/expense-repo latest 035248dac43b 3 days ago 1.08GB
au.icr.io/jopapp-1/expense-repo tag1 035248dac43b 3 days ago 1.08GB
ibm-2 latest 035248dac43b 3 days ago 1.08GB
suryashiva/expense-tracker-1 latest 035248dac43b 3 days ago 1.08GB
ibm-1 latest 7a7e44939aa7 3 days ago 1.08GB
ibm latest c8e693d2d739 4 days ago 1.08GB

C:\Users\user\Desktop\Our team IBM Application>
```

```
Command Prompt - docker r
=> => extracting sha256:884b144bec286b456b1cd694ccd6adc07c3619b3b84069c4ec575fe213e94a7e 0.3s
=> => extracting sha256:1c469643b609089ff435b3ba0e22f7acdad34837547c33ab301eeaa7993a6ef1 0.8s
=> => extracting sha256:4c0ac982aa8993dae4217bebc9bd25cd97047488572ca84795be03483457208 0.0s
=> => extracting sha256:049db2c7eb8a5bd3833cac2f58c6c72b481f1a0288a8b20527529c4970b52762 0.3s
=> => [internal] load build context 0.1s
=> => transferring context: 2.60MB 0.1s
=> => [2/5] WORKDIR /python-expense 0.4s
=> => [3/5] COPY requirements.txt requirements.txt 0.0s
=> => [4/5] RUN pip install -r requirements.txt 184.2s
=> => [5/5] COPY . . 0.0s
=> => exporting to image 1.1s
=> => exporting layers 1.1s
=> => writing image sha256:d5758388aac13d11d02d9c599ef4c37b72696e3d3c871133bc464ff0aba18869 0.0s
=> => naming to docker.io/library/expense-tracker-01 0.0s

Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them

C:\Users\user\Desktop\Our team IBM Application>docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
expense-tracker-01 latest d5758388aac1 About a minute ago 1.12GB
au.icr.io/jopapp-1/expense-repo latest 035248dac43b 3 days ago 1.08GB
au.icr.io/jopapp-1/expense-repo tag1 035248dac43b 3 days ago 1.08GB
ibm-2 latest 035248dac43b 3 days ago 1.08GB
suryashiva/expense-tracker-1 latest 035248dac43b 3 days ago 1.08GB
ibm-1 latest 7a7e44939aa7 3 days ago 1.08GB
ibm latest c8e693d2d739 4 days ago 1.08GB

C:\Users\user\Desktop\Our team IBM Application>docker run -p 8080:8080 expense-tracker-01
* Debug mode: off
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on all addresses (0.0.0.0)
* Running on http://127.0.0.1:5000
* Running on http://172.17.0.2:5000
Press CTRL+C to quit
```

