Aim: To deploy a static HTML website using Windows Docker.

Steps:

You can create a Docker image and then run a container from that image. Here are the steps:

1. **Create a Dockerfile:** Create a file called **Dockerfile** in a new directory.

```
PS C:\Users\Lenovo\docker_example> cd python4
PS C:\Users\Lenovo\docker_example\python4> New-Item Dockerfile
```

2. Add the following lines to the Dockerfile:

```
PS C:\Users\Lenovo\docker_example\python4> notepad Dockerfile
```

#write following in opened notpad Dockerfile (for python)

```
FROM python:3.9-slim-buster
WORKDIR /app
COPY . /app
CMD ["python", "addition.py"]
```

Replace **addition.py** with the name of your Python program file.

#write following in opened notpad Dockerfile (for HTML)

```
FROM httpd:2.4
COPY . /usr/local/apache2/htdocs/
```

2. **Build the Docker image:** Open a PowerShell window and navigate to the directory where the Dockerfile is located. Run the following command to build the Docker image:

   ```
   docker build -t my-python-app .
   ```

   This command builds the Docker image with the tag **my-python-app**.

   ```
   docker build -t my-apache2 .
   ```

   This command builds the Docker image with the tag **my-apache2**.
3. **Run a Docker container:** Run the following command to start a new Docker container from the image:

   ```
   docker run -it my-python-app
   ```

   This command starts a new Docker container from the **my-python-app** image and opens an interactive terminal (**-it** option) inside the container. You can then enter the input values when prompted by your Python program.

   ```
   docker run -dit --name my-running-app -p 8080:80 my-apache2
   ```

   This command starts a new Docker container from the **my-python-app** image and opens an detached interactive terminal (**-dit** option) inside the container.

   Note that the input values must be entered in the PowerShell window, not in the container's terminal.