

Assignment 2.1

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First we install the following libraries, which required for auto formatting in Jupyter lab

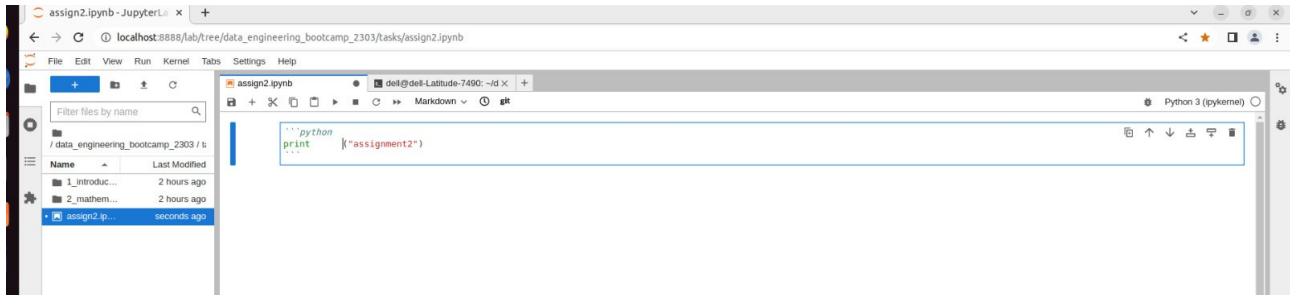
Pip install nbqa

Pip install blaken-docs

Pip install black

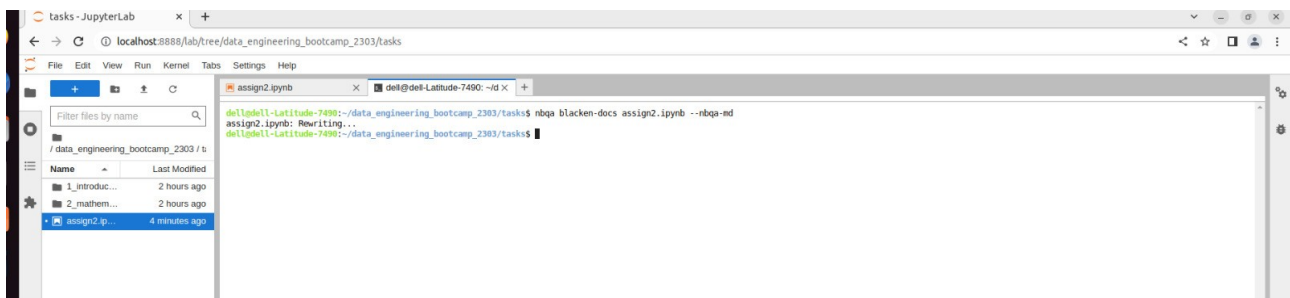
```
OsamaAbdulRazzak@all-MS-7035:~$ pip install blacken-docs
Defaulting to user installation because normal site-packages is not writeable
Collecting blacken-docs
  Downloading blacken_docs-1.13.0-py3-none-any.whl (7.1 kB)
Requirement already satisfied: black>=22.1.0 in ./local/lib/python3.10/site-packages (from blacken-docs) (23.3.0)
Requirement already satisfied: mypy-extensions>=0.4.3 in ./local/lib/python3.10/site-packages (from black>=22.1.0->blacken-docs) (1.0.0)
Requirement already satisfied: platformdirs>=2 in ./local/lib/python3.10/site-packages (from black>=22.1.0->blacken-docs) (3.2.0)
Requirement already satisfied: click>=8.0.0 in /usr/lib/python3/dist-packages (from black>=22.1.0->blacken-docs) (8.0.3)
Requirement already satisfied: toml>=1.1.0 in ./local/lib/python3.10/site-packages (from black>=22.1.0->blacken-docs) (2.0.1)
Requirement already satisfied: packaging>=22.0 in ./local/lib/python3.10/site-packages (from black>=22.1.0->blacken-docs) (23.0)
Requirement already satisfied: pathspec>=0.9.0 in ./local/lib/python3.10/site-packages (from black>=22.1.0->blacken-docs) (0.11.1)
Installing collected packages: blacken-docs
Successfully installed blacken-docs-1.13.0
OsamaAbdulRazzak@all-MS-7035:~$ pip install nbqa
Defaulting to user installation because normal site-packages is not writeable
Requirement already satisfied: nbqa in ./local/lib/python3.10/site-packages (1.7.0)
Requirement already satisfied: tomli in ./local/lib/python3.10/site-packages (from nbqa) (2.0.1)
Requirement already satisfied: tokenize-rt>=3.2.0 in ./local/lib/python3.10/site-packages (from nbqa) (5.0.0)
Requirement already satisfied: ipython>=7.8.0 in ./local/lib/python3.10/site-packages (from nbqa) (8.12.0)
Requirement already satisfied: autopep8>=1.5 in ./local/lib/python3.10/site-packages (from nbqa) (2.0.2)
Requirement already satisfied: pycodestyle>=2.10.0 in ./local/lib/python3.10/site-packages (from autopep8>=1.5->nbqa) (2.10.0)
Requirement already satisfied: pygments>=2.4.0 in ./local/lib/python3.10/site-packages (from ipython>=7.8.0->nbqa) (2.15.0)
Requirement already satisfied: backcall in ./local/lib/python3.10/site-packages (from ipython>=7.8.0->nbqa) (0.2.0)
Requirement already satisfied: pickleshare in ./local/lib/python3.10/site-packages (from ipython>=7.8.0->nbqa) (0.7.5)
Requirement already satisfied: decorator in ./local/lib/python3.10/site-packages (from ipython>=7.8.0->nbqa) (5.1.1)
Requirement already satisfied: matplotlib-inline in ./local/lib/python3.10/site-packages (from ipython>=7.8.0->nbqa) (0.1.6)
Requirement already satisfied: pexpect>4.3 in /usr/lib/python3/dist-packages (from ipython>=7.8.0->nbqa) (4.8.0)
Requirement already satisfied: traitlets>=5 in ./local/lib/python3.10/site-packages (from ipython>=7.8.0->nbqa) (5.9.0)
Requirement already satisfied: prompt-toolkit>=3.0.37,<3.1.0,>=3.0.30 in ./local/lib/python3.10/site-packages (from ipython>=7.8.0->nbqa) (3.0.38)
Requirement already satisfied: jedi>=0.16 in ./local/lib/python3.10/site-packages (from ipython>=7.8.0->nbqa) (0.17.2)
Requirement already satisfied: stack-data in ./local/lib/python3.10/site-packages (from ipython>=7.8.0->nbqa) (0.6.2)
Requirement already satisfied: parso<0.8.0,>=0.7.0 in ./local/lib/python3.10/site-packages (from jedi>=0.16->ipython>=7.8.0->nbqa) (0.7.1)
Requirement already satisfied: wcwidth in ./local/lib/python3.10/site-packages (from prompt-toolkit>=3.0.37,<3.1.0,>=3.0.30->ipython>=7.8.0->nbqa) (0.2.6)
Requirement already satisfied: executing>=1.2.0 in ./local/lib/python3.10/site-packages (from stack-data->ipython>=7.8.0->nbqa) (1.2.0)
Requirement already satisfied: asttokens>=2.1.0 in ./local/lib/python3.10/site-packages (from stack-data->ipython>=7.8.0->nbqa) (2.2.1)
Requirement already satisfied: pure-eval in ./local/lib/python3.10/site-packages (from stack-data->ipython>=7.8.0->nbqa) (0.2.2)
Requirement already satisfied: six in /usr/lib/python3/dist-packages (from asttokens>=2.1.0->stack-data->ipython>=7.8.0->nbqa) (1.16.0)
OsamaAbdulRazzak@all-MS-7035:~$ pip install black
Defaulting to user installation because normal site-packages is not writeable
Requirement already satisfied: black in ./local/lib/python3.10/site-packages (23.3.0)
Requirement already satisfied: tomli>=1.1.0 in ./local/lib/python3.10/site-packages (from black) (2.0.1)
Requirement already satisfied: pathspec>=0.9.0 in ./local/lib/python3.10/site-packages (from black) (0.11.1)
Requirement already satisfied: packaging>=22.0 in ./local/lib/python3.10/site-packages (from black) (23.0)
Requirement already satisfied: platformdirs>=2 in ./local/lib/python3.10/site-packages (from black) (3.2.0)
Requirement already satisfied: click>=8.0.0 in /usr/lib/python3/dist-packages (from black) (8.0.3)
Requirement already satisfied: mypy-extensions>=0.4.3 in ./local/lib/python3.10/site-packages (from black) (1.0.0)
```

then we type the following code in markdown cell



which is not formatted as you can see in figure

After that we type following bash in Jupyter terminal



and then it rewrite it and after reloading it
our code is formatted in markdown cell

