

Working with Jupyter Notebook

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worksheet-1.ipynb

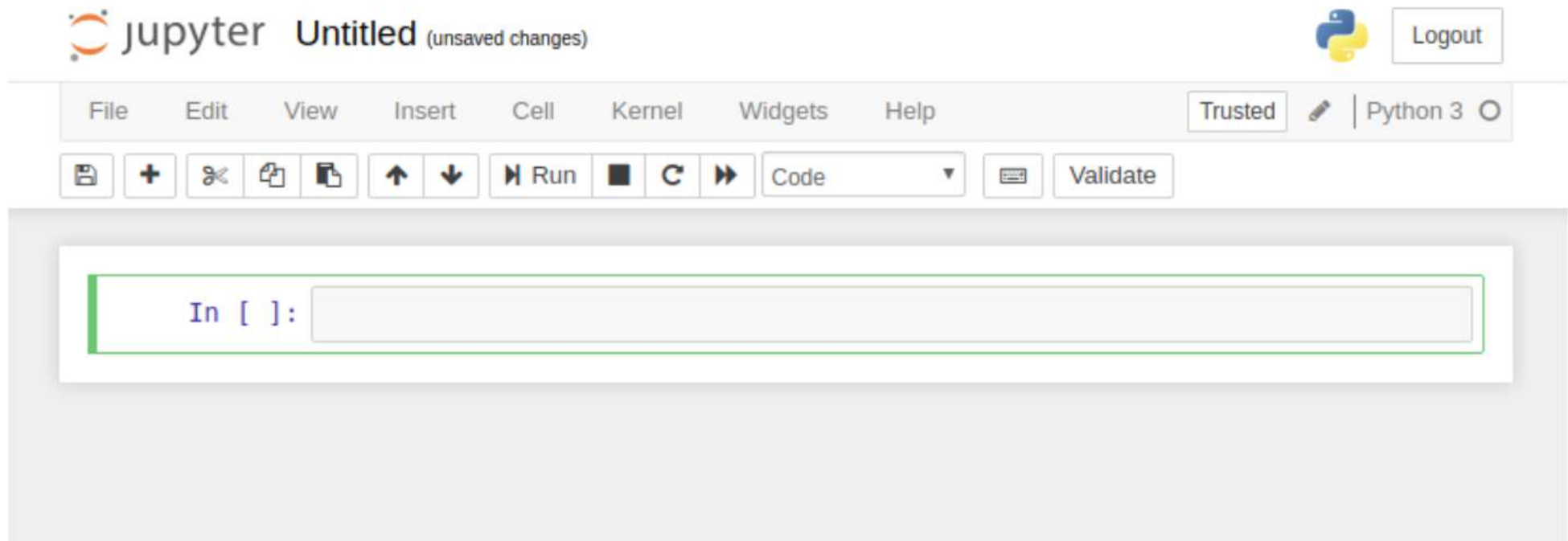
Running 2 minutes ago



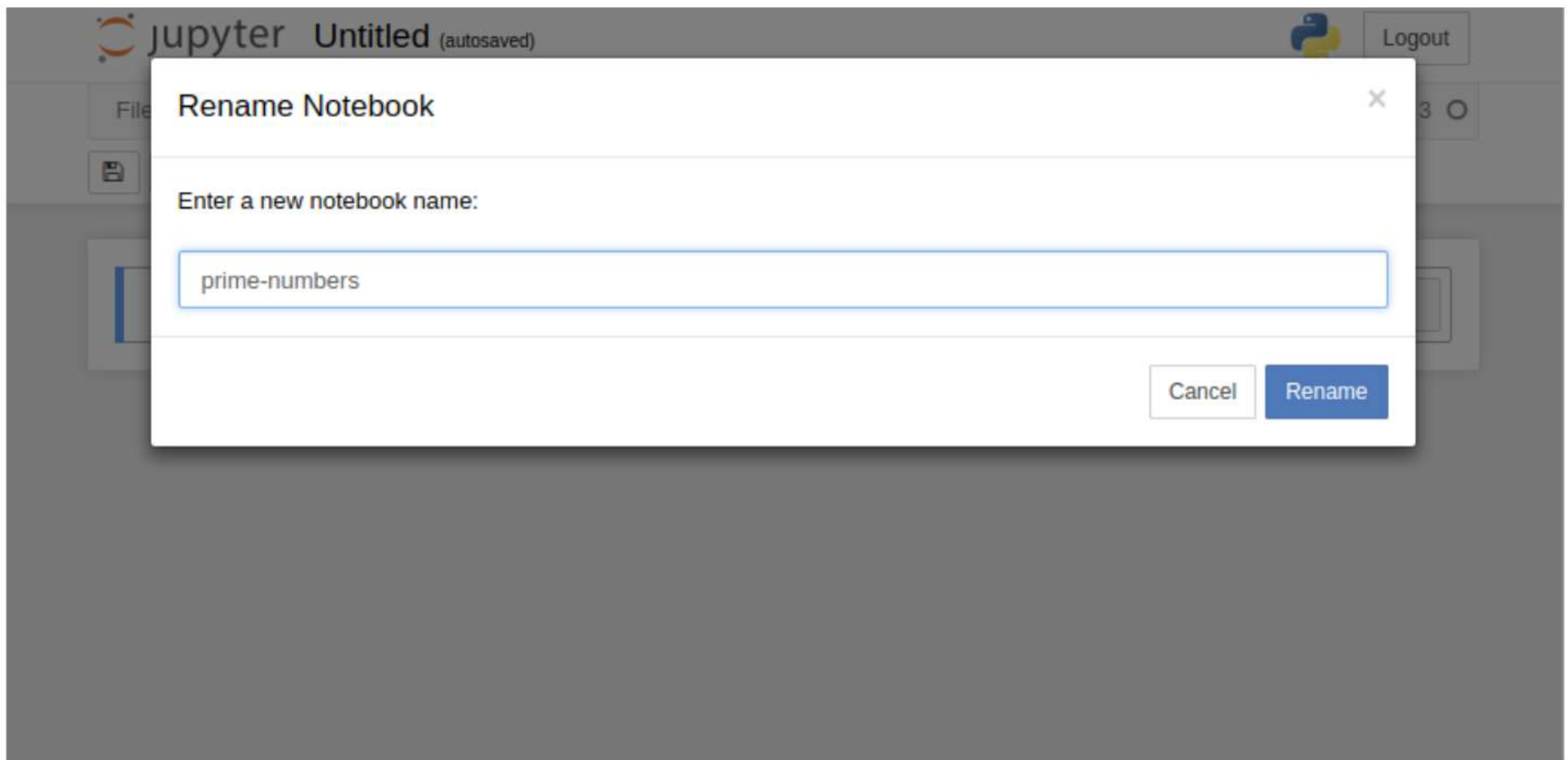
worksheet-2.ipynb

Running seconds ago

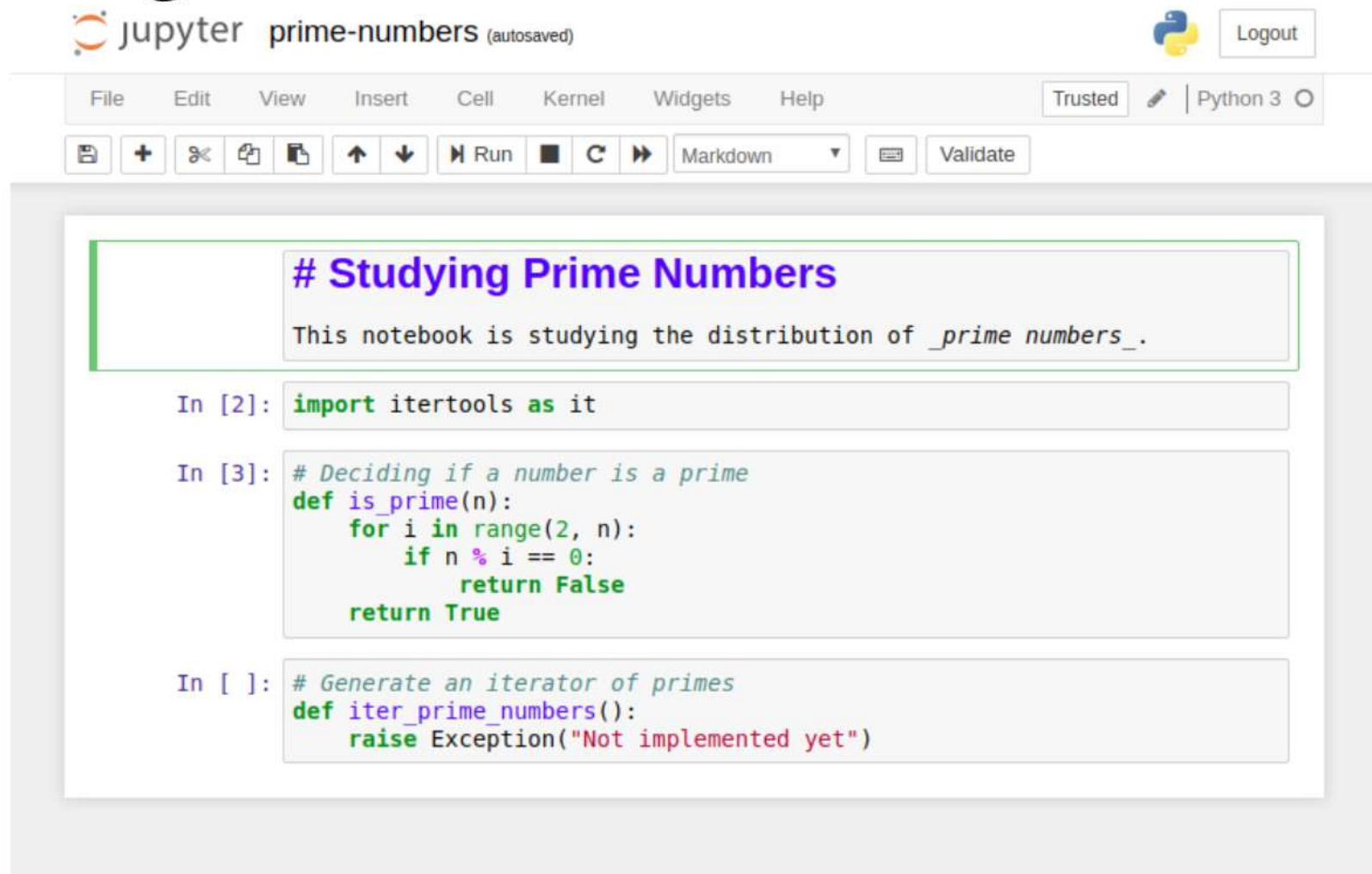
Creating a new notebook



Creating new notebook



Creating cells




The image shows a Jupyter Notebook interface. At the top, the notebook is titled "prime-numbers (autosaved)". The interface includes a menu bar with options: File, Edit, View, Insert, Cell, Kernel, Widgets, and Help. Below the menu bar is a toolbar with icons for saving, adding cells, undo, redo, and running code. The notebook contains three cells:

- Markdown Cell:** The title "# Studying Prime Numbers" is in purple. The text "This notebook is studying the distribution of *_prime numbers_*." is in black.
- Code Cell (In [2]):** Contains the code `import itertools as it`.
- Code Cell (In [3]):** Contains the code for a function `is_prime(n)` that checks if a number is prime by testing divisibility from 2 to `n-1`.

```
# Deciding if a number is a prime
def is_prime(n):
    for i in range(2, n):
        if n % i == 0:
            return False
    return True
```
- Code Cell (In []):** Contains the code for a generator function `iter_prime_numbers()` that currently raises an exception.

```
# Generate an iterator of primes
def iter_prime_numbers():
    raise Exception("Not implemented yet")
```

Evaluation

jupyter prime-numbers (unsaved changes)  Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code Validate

Studying Prime Numbers

This notebook is studying the distribution of *prime numbers*.

```
In [2]: import itertools as it
```

```
In [3]: # Deciding if a number is a prime
def is_prime(n):
    for i in range(2, n):
        if n % i == 0:
            return False
    return True
```

```
In [4]: # Generate an iterator of primes
def iter_prime_numbers():
    raise Exception("Not implemented yet")
```

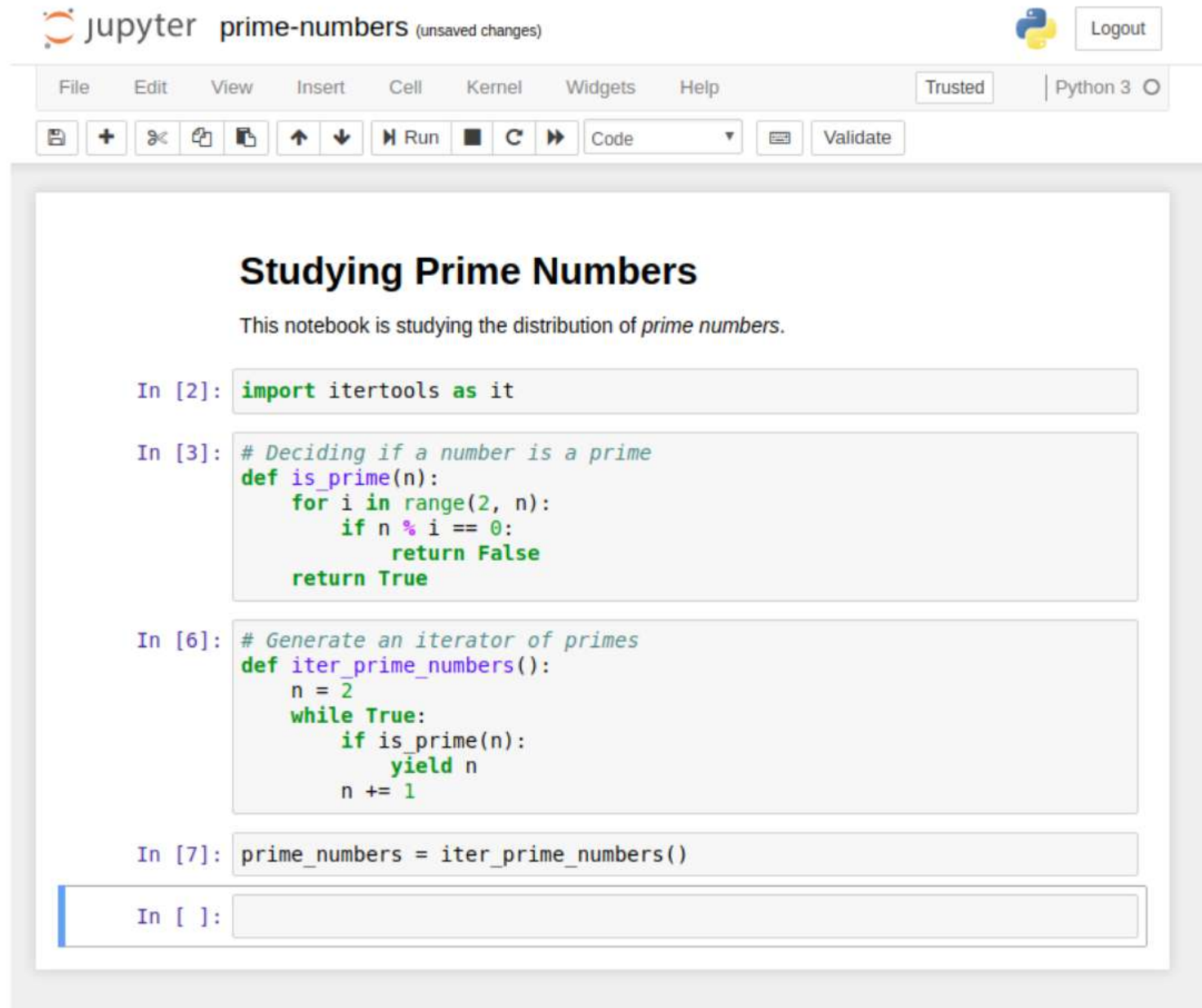
```
In [5]: prime_numbers = iter_prime_numbers()
```

```
-----
Exception                                 Traceback (most recent call last)
<ipython-input-5-c343b5a46c8f> in <module>()
----> 1 prime_numbers = iter_prime_numbers()

<ipython-input-4-a52349994175> in iter_prime_numbers()
      1 # Generate an iterator of primes
      2 def iter_prime_numbers():
----> 3     raise Exception("Not implemented yet")

Exception: Not implemented yet
```

Evaluation



The image shows a Jupyter Notebook interface with the title "prime-numbers (unsaved changes)". The top bar includes a menu (File, Edit, View, Insert, Cell, Kernel, Widgets, Help), a "Trusted" status indicator, and a "Python 3" version selector. Below the menu is a toolbar with icons for saving, adding cells, undo, redo, running, and other actions. The notebook content is titled "Studying Prime Numbers" and includes a description: "This notebook is studying the distribution of *prime numbers*." The code is organized into cells, each starting with an "In" prompt. The first cell imports the `itertools` module. The second cell defines a function `is_prime(n)` that checks if a number is prime. The third cell defines a function `iter_prime_numbers()` that generates an iterator of prime numbers. The fourth cell assigns the iterator to `prime_numbers`. The fifth cell is an empty input prompt.

jupyter prime-numbers (unsaved changes)

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Save + Undo Redo Run Stop Restart Code Validate

Studying Prime Numbers

This notebook is studying the distribution of *prime numbers*.

```
In [2]: import itertools as it
```


```
In [3]: # Deciding if a number is a prime
def is_prime(n):
    for i in range(2, n):
        if n % i == 0:
            return False
    return True
```

```
In [6]: # Generate an iterator of primes
def iter_prime_numbers():
    n = 2
    while True:
        if is_prime(n):
            yield n
        n += 1
```

```
In [7]: prime_numbers = iter_prime_numbers()
```

```
In [ ]:
```

Evaluation

jupyter prime-numbers (unsaved changes)  Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Save + Undo Copy Paste Up Down Run Stop Restart Code Validate

Studying Prime Numbers

This notebook is studying the distribution of *prime numbers*.

```
In [2]: import itertools as it
```

```
In [3]: # Deciding if a number is a prime
def is_prime(n):
    for i in range(2, n):
        if n % i == 0:
            return False
    return True
```

```
In [6]: # Generate an iterator of primes
def iter_prime_numbers():
    n = 2
    while True:
        if is_prime(n):
            yield n
        n += 1
```

```
In [7]: prime_numbers = iter_prime_numbers()
```

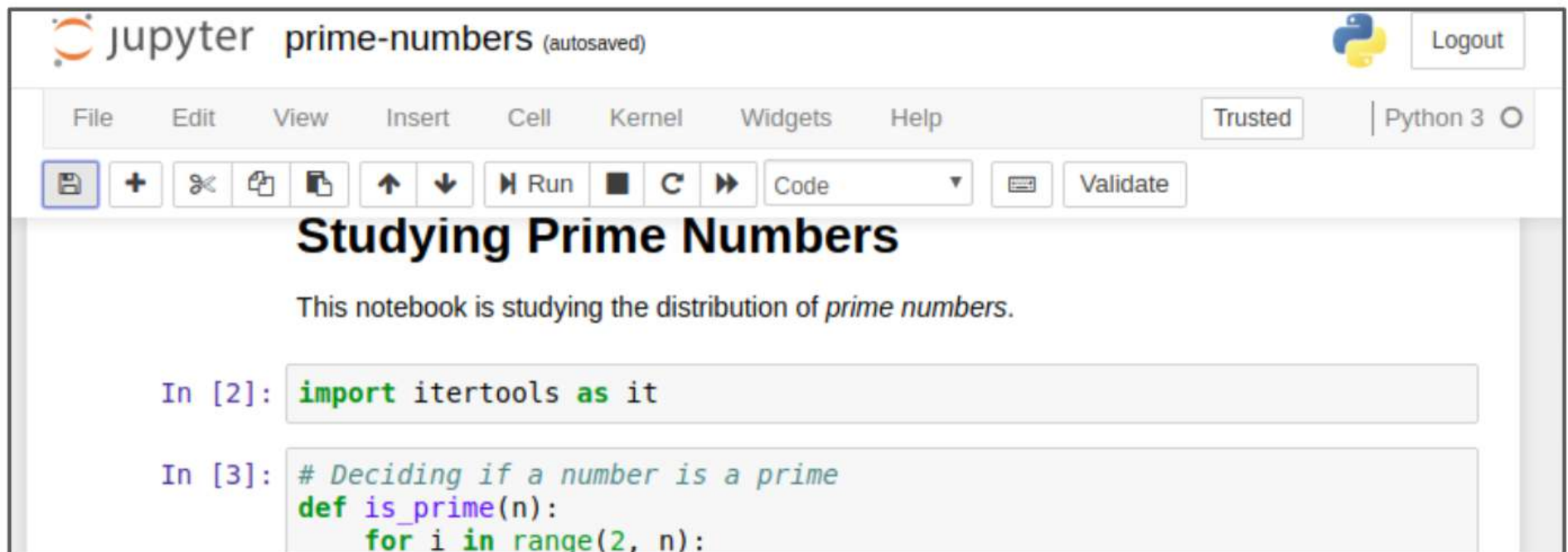
```
In [11]: first_10 = it.islice(prime_numbers, 10)
```


```
In [12]: list(first_10)
```

```
Out[12]: [2, 3, 5, 7, 11, 13, 17, 19, 23, 29]
```












```
In [ ]:
```


Don't forget to save



jupyter prime-numbers (autosaved)  Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

        Run    Code Validate

Studying Prime Numbers

This notebook is studying the distribution of *prime numbers*.

```
In [2]: import itertools as it
```

```
In [3]: # Deciding if a number is a prime
def is_prime(n):
    for i in range(2, n):
```

Don't forget to save

The image shows a JupyterLab interface. The main window displays a notebook titled "prime-numbers (autosaved)". The notebook's title bar includes the Jupyter logo, the name "prime-numbers (autosaved)", a Python logo, and a "Logout" button. Below the title bar is a menu bar with "File", "Edit", "View", "Insert", "Cell", "Kernel", "Widgets", and "Help". To the right of the menu bar are "Trusted" and "Python 3" indicators. Below the menu bar is a toolbar with icons for saving (a floppy disk icon), adding a new file, undo, redo, copy, paste, up/down arrows, run, interrupt, and a dropdown menu currently set to "Code". There are also "Validate" and "Run" buttons. The notebook content shows the title "Studying Prime Numbers" and the text "This notebook is studying the distribution of *prime numbers*."

The sidebar on the left shows the "Files" tab. It has a "Select items to perform actions on them." prompt, followed by "Upload", "New", and a refresh icon. Below this is a file list table:

	Name	Last Modified
<input type="checkbox"/>	0	
<input type="checkbox"/>	prime-numbers.ipynb	Running seconds ago
<input type="checkbox"/>	worksheet-1.ipynb	a day ago
<input type="checkbox"/>	worksheet-2.ipynb	a day ago