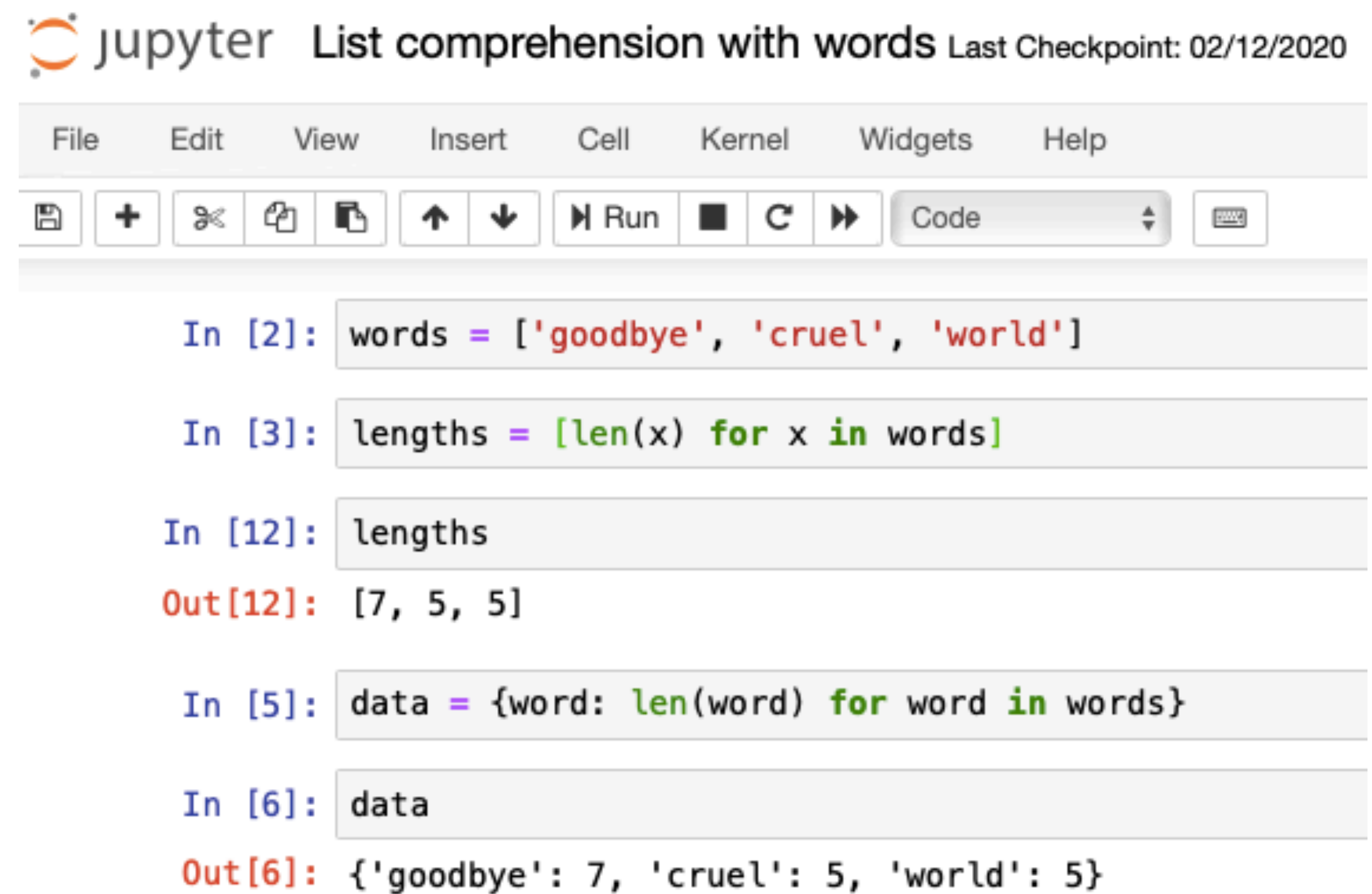


리스트 표현식

list comprehension

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The image shows a Jupyter Notebook interface with the title "List comprehension with words" and a last checkpoint of "02/12/2020". The interface includes a menu bar (File, Edit, View, Insert, Cell, Kernel, Widgets, Help) and a toolbar with icons for saving, adding, deleting, and running code. The notebook contains six input cells and two output cells. The first input cell defines a list of words. The second input cell uses list comprehension to calculate the length of each word. The third input cell prints the resulting list. The fourth input cell uses dictionary comprehension to create a dictionary of word lengths. The fifth input cell prints the resulting dictionary. The sixth input cell prints the dictionary again.

```
In [2]: words = ['goodbye', 'cruel', 'world']

In [3]: lengths = [len(x) for x in words]

In [12]: lengths
Out[12]: [7, 5, 5]

In [5]: data = {word: len(word) for word in words}

In [6]: data
Out[6]: {'goodbye': 7, 'cruel': 5, 'world': 5}
```

리스트 생성

반복, 표현식

```
In [2]: words = ['goodbye', 'cruel', 'world']
```

```
In [3]: lengths = [len(x) for x in words]
```

```
In [12]: lengths
```

```
Out[12]: [7, 5, 5]
```

```
In [4]: lengths = []  
for word in words:  
    lengths.append(len(word))  
  
lengths
```

```
Out[4]: [7, 5, 5]
```

표현식

반복

딕셔너리 생성

반복, 축약

```
In [5]: data = {word: len(word) for word in words}
```

표현식

```
In [6]: data
```

```
Out[6]: {'goodbye': 7, 'cruel': 5, 'world': 5}
```

```
In [7]: lengths = []  
        for word in words:  
            lengths.append(len(word))  
  
        lengths
```

반복

```
Out[7]: [7, 5, 5]
```

```
In [8]: data = dict(zip(words, lengths))
```

```
In [7]: data
```

```
Out[7]: {'goodbye': 7, 'cruel': 5, 'world': 5}
```

리스트 표현식

함수적용

```
In [20]: def celsius_to_fahrenheit(degree):  
         return (9/5) * degree + 32
```

```
In [21]: ctemps = [17.1, 22.3, 18.4, 19.1]
```

```
In [22]: [celsius_to_fahrenheit(x) for x in ctemps]
```

```
Out[22]: [62.78, 72.14, 65.12, 66.38]
```