Practice Task One:

```
In [6]: f = open('codepractice1.txt', 'r')
In [7]: lines = f.readlines()
In [8]: [principal, rate, time_period] = [x.strip('\n')] for x in lines]
In [9]: f.close()
In [10]: principal
Out[10]: '1000'
In [11]: rate
Out[11]: '0.145'
In [12]: time_period
Out[12]: '3'
In [13]: type(principal)
Out[13]: str
In [14]: principal=float(principal)
In [15]: type(principal)
Out[15]: float
In [16]: rate=float(rate)
In [17]: time_period=float(time_period)
In [18]: type(rate)
Out[18]: float
In [19]: type(time_period)
Out[19]: float
In [23]: compounded_principal=principal*(1+rate)//time_period
In [24]: compounded_principal
Out[24]: 381.0
```

Practice Task Two

Practice Task Three

```
Cef-python: Python Specialization/python-recipe-app
(cf-python-base) → python-recipe-app git:(master) x ipython
Python 3.8.16 (default, Dec 7 2022, 01:36:11)
Type 'copyright', 'credits' or 'license' for more information
IPython 8.8.0 -- An enhanced Interactive Python. Type '?' for help.

In [1]: ford2020 = ['Fiesta', 'Focus', 'Mondeo', 'Galaxy', 'Edge', 'Kuga', 'Ecos ...: port', 'Puma', 'Ranger']

In [2]: ford2020.append('Mustang')
In [3]: ford2020.sort()
In [4]: print(ford2020)
['Ecosport', 'Edge', 'Fiesta', 'Focus', 'Galaxy', 'Kuga', 'Mondeo', 'Mustang', 'Puma', 'Ranger']
In [5]:
```

Practice Task Four

str3 = 'hello, how are you?'

Input	Return
str3[3:]	'lo, how are you?'
str3[-3:]	'ou?'
str3[2:9:3]	'l,o'
str3[::-2]	'?o r o olh'
str3[2:8]	ʻllo, h'

```
In [1]: str1 = 'hello, '
In [2]: str2 = 'how are you?'
In [3]: str3 = str1 + str2
In [4]: print(str3[3:])
lo, how are you?
In [5]: print(str3[-3:])
ou?
In [6]: print(str3[2:9:3])
l,o
In [7]: print(str3[::-2])
?o r o olh
In [8]: print(str3[2:8])
llo, h
```

Practice Task Five

```
In [1]: months_named = ['January', 'February', 'March', 'April', 'May', 'June',
   ...: 'July', 'August', 'September', 'October', 'November', 'December']
In [2]: months_numbered = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12]
In [3]: z = zip(months_named, months_numbered)
In [4]: months_dict = dict(z)
In [7]: months_named.clear()
In [8]: months_numbered.clear()
In [9]: months_dict
Out[9]:
{'January': 1,
 'February': 2,
 'March': 3,
 'April': 4,
 'May': 5,
 'June': 6,
 'July': 7,
 'August': 8,
 'September': 9,
 'October': 10,
 'November': 11,
 'December': 12}
In [10]: months_extracted = list(months_dict.keys())
In [11]: months_extracted.sort()
In [13]: months_extracted
Out[13]:
['April',
 'August',
 'December',
 'February',
 'January',
 'July',
 'June',
 'March',
 'May',
 'November',
 'October',
 'September']
```