

Python training - lab 7

Type hinting

```
def func(a: str, b: int) -> str:  
    """Mini documentation of func"""  
    return a * b
```

```
def func2(a: int or list, b: int) -> int or list:  
    return a * b
```

```
def func3(a: str = 'abc', b: int = 3) -> str:  
    return a * b
```

```
x: bool = True
```

Text file operations - write

```
# open a file for writing
my_file = open("file.txt", "w", encoding='utf-8')
my_file.write("first line\n")
my_file.write("second line\n")
my_file.close()
```

```
# alternative open a file for writing
with open("file.txt", "w") as my_file:
    my_file.write("first line\n")
    my_file.write("second line\n")
```

Text file operations - write

```
# alternative open a file for writing
# using print parameter file
with open("file.txt", "w") as my_file:
    print("first line", file=my_file)
    print("second line", file=my_file)
```

Text file operations - append

```
# open a file for appending
with open("file.txt", "a") as my_file:
    my_file.write("one more line\n")
    my_file.write("another line\n")
```

Text file operations - read

```
# open a file for reading line by line
with open("file.txt", "r") as my_file:
    for line in my_file:
        print(line)
```

```
# open a file for reading all lines in a string
with open("file.txt", "r") as my_file:
    s = my_file.read()
```

```
# open a file for reading all lines in a list
with open("file.txt", "r") as my_file:
    l = my_file.readlines()
```