

# Functions, Files, Yield, and Lambda

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# Our App - PyStudentManager

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# Our App



**Name: PyStudentManager**

**Student Details**

**Easy to Expand**

**From Console to a Web App**



# Functions

```
print("Hello World")
```

```
str(3) == "3"
```

```
int("15") == 15
```

```
username = input("Enter the user's name: ")
```



# Nested Functions

```
def get_students():  
    students = ["mark", "james"]  
  
    def get_students_titlecase():  
        students_titlecase = []  
  
        for student in students:  
            students_titlecase.append(student.title())  
  
        return student_titlecase  
  
    students_titlecase_names = get_titlecase_names()  
    print(students_titlecase_names)
```



# Generator Functions - Yield

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# Lambda Functions

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# Lambda functions

```
def double(x):  
    return x * 2
```

```
double = lambda x: x * 2
```

```
double(5) == 10
```





# Summary



**Functions**

**Function arguments**

**Reading and writing to files**

**Lambda functions**

**Generators**