

Python for Everybody

Instructor's Manual

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Table of Contents

Introduction	7
Solutions to exercises from the textbook	7
Chapter 2	7
Exercise 2-2	7
Exercise 2-3	7
Exercise 2-4	8
Exercise 2-5	8
Chapter 3	9
Exercise 3-1	9
Exercise 3-2	9
Exercise 3-3	9
Chapter 4	10
Exercise 4-1	10
Exercise 4-2	10
Exercise 4-3	11
Exercise 4-5	11
Exercise 4-6	11
Exercise 4-7	12
Chapter 5	13
Exercise 5-1	13
Exercise 5-2	13
Chapter 6	14
Exercise 6-1	14
Exercise 6-2	14
Exercise 6-3	14
Exercise 6-4	15
Exercise 6-5	15
Exercise 6-6	15
Chapter 7	16
Exercise 7-1	16

Exercise 7-2	16
Exercise 7-3	16
Chapter 8	17
Exercise 8-1	17
Exercise 8-2	17
Exercise 8-3	18
Exercise 8-4	18
Exercise 8-5	19
Exercise 8-6	20
Chapter 9	20
Exercise 9-1	20
Exercise 9-2	20
Exercise 9-3	21
Exercise 9-4	21
Exercise 9-5	22
Chapter 10	22
Exercise 10-1	22
Exercise 10-2	23
Exercise 10-3	23
Chapter 11	24
Exercise 11-1	24
Exercise 11-2	24
Chapter 12	25
Exercise 12-1	25
Exercise 12-2	25
Exercise 12-3	26
Exercise 12-4	27
Exercise 12-5	27
Chapter 13	28
Exercise 13-1	28
Solutions to online exercises	29
Chapter 1	29
Exercise “Write Hello World”	29
Chapter 2	30
Exercise 2-2	30
Exercise 2-3	30
Chapter 3	30
Exercise 3-1	30

Exercise 3-3	31
Chapter 4	31
Exercise 4-6	31
Chapter 5	32
Exercise 5-2	32
Chapter 6	32
Exercise 6-5	32
Chapter 7	33
Exercise 7-2	33
Chapter 8	33
Exercise 8-4	33
Exercise 8-5	34
Chapter 9	34
Exercise 9-4	34
Chapter 10	35
Exercise 10-2	35
Chapter 11	35
Exercise “Regular Expressions”	35
Chapter 12	36
Exercise “Request-Response Cycle”	36
Exercise “Scraping HTML Data with BeautifulSoup”	37
Exercise “Following Links with BeautifulSoup”	37
Chapter 13	38
Exercise “Extracting Data from XML”	38
Exercise “Extract Data from JSON”	38
Exercise “Using the GeoJSON API”	39
Chapter 15	40
Exercise “Single Table SQL”	40
Exercise “Counting Email in a Database”	41
Exercise “Multi-Table Database - Tracks”	42
Exercise “Many Students in Many Courses”	44

Introduction

The book contains supplementary material to the free textbook: Charles R. Severance, “Python for Everybody: Exploring Data in Python 3”. Below are solutions to programming exercises from the textbook and online programming tasks I wrote while teaching an introductory course in Python. The book is dedicated to teachers and lecturers using the above-mentioned textbook, so if you are learning Python, this book is not for you - try to solve all the exercises independently. Please do not share the following materials on the Internet.

I prepared this book because when I was teaching a course on Python programming, I lacked, as a teacher, a quick insight into the answers to the solutions, so that I could better focus on helping students and solving their problems. After translating the textbook into Polish, I was getting a lot of questions about the answers, but handling these requests myself is very time-consuming. Some publishers (like Pearson, MIT Press, etc.) provide additional materials only for verified teachers and lecturers, however, I do not have the opportunity for such automatic verification (the books are self-published). Therefore, I decided to publish the instructor’s manual, where despite the general availability which is not ideal, the essential barrier will simply be the price, which can be overcome mainly either by instructors themselves or by libraries.

I hope the following content will help you teach Python programming course.

Solutions to exercises from the textbook

Chapter 2

Exercise 2-2

Solution: prog-02-02.py

```
name = input("Enter your name: ")
print("Hello " + name)
```

Exercise 2-3

Solution: prog-02-03.py

```
hrs = input("Enter Hours: ")
hrs = float(hrs)

rt = input("Enter Rate: ")
rt = float(rt)

pay = hrs * rt
pay = round(pay, 2)
print("Pay: " + str(pay))
```

Exercise 2-4

Solution: prog-02-04.py

```
width = 17
height = 12.0

print(width//2)
print(type(width//2))

print(width/2.0)
print(type(width/2.0))

print(height/3)
print(type(height/3))

print(1 + 2 * 5)
print(type(1 + 2 * 5))
```

Exercise 2-5

Solution: prog-02-05.py

```
celsius = input("Temp. Celsius: ")
celsius = float(celsius)

fahrenheit = (celsius * 9/5) + 32

print("Temp. Fahrenheit: " + str(fahrenheit))
```