Advanced Python — exercises and solutions

Solutions have been inserted between the original text of the exercises. Take care :)

Exercise D1 (30 min)

Write a decorator which wraps functions to log function arguments and the return value on each call. Provide support for both positional and named arguments (your wrapper function should take both *args and **kwargs and print them both):

```
>>> @logged
... def func(*args):
...         return 3 + len(args)
>>> func(4, 4, 4)
you called func(4, 4, 4)
it returned 6
6
```

Solution

As a class:

```
class logged:
    def __init__(self, func):
        self.func = func

    def __call__(self, *args, **kwargs):
        print('you called {.__name__}({}{}{})'.format(
            func,
            str(list(args))[1:-1],  # cast to list is because tuple
                                    # of length one has an extra comma
            ', ' if kwargs else '',
            ', '.join('{}={}'.format(*pair) for pair in kwargs.items()),
            ))
        val = func(*args, **kwargs)
        print('it returned', val)
        return val
```

As a function:

```
def logged(func):
    """Print out the arguments before function call and
    after the call print out the returned value
    """

    def wrapper(*args, **kwargs):
        print('you called {.__name__}({}{}{})'.format(
```

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The Python Workbook Ben Stephenson,2015-01-22 While other textbooks devote their pages to explaining introductory programming concepts The Python Workbook focuses exclusively on exercises following the philosophy that computer programming is a skill best learned through experience and practice Designed to support and encourage hands on learning about programming this student friendly work contains 174 exercises spanning a variety of academic disciplines and everyday situations Solutions to selected exercises are also provided supported by brief annotations that explain the technique used to solve the problem or highlight specific points of Python syntax No background knowledge is required to solve the exercises beyond the material covered in a typical introductory Python programming course Undergraduate students undergoing their first programming course and wishing to enhance their programming abilities will find the exercises and solutions provided in this book to be ideal for their needs *Python Programming Recipes for IoT Applications* Jivan S. Parab,Madhusudan Ganuji Lanjewar,Marlon Darius Sequeira,Gourish Naik,Arman Yusuf Shaikh,2023-06-07 The book comprehensively covers the most important applications of the internet of things IoT using Python programming on Raspberry pi Micropython Py Board and NVIDIA Jetson Board The authors have used an immersive hands on approach to help readers gain expertise in developing working code for real world IoT applications The book focuses on industry standard embedded platforms for IoT applications It also gives a glimpse of python programming and setup configuration of these embedded platforms The later chapter highlights basic interface applications with Raspberry Pi Exclusive advanced IoT applications on the Micropython Pyboard are also covered The last two chapters deal with the NVIDIA Jetson Nano board programming for machine learning applications with FoG cloud computing The various IoT applications with different embedded platforms in this volume are best suited for undergraduate postgraduate students and researchers who want to get exposed to python programming for IoT applications This book will enable readers to design their own embedded IoT products *A Practical Handbook of Corpus Linguistics* Magali Paquot,Stefan Th. Gries,2021-05-04 This handbook is a comprehensive practical resource on corpus linguistics It features a range of basic and advanced approaches methods and techniques in corpus linguistics from corpus compilation principles to quantitative data analyses The Handbook is organized in six Parts Parts I to III feature chapters that discuss key issues and the know how related to various topics around corpus

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Smart,2020-11-12 Create innovative IoT projects using Python and Raspberry Pi with this hands on guide packed with fun experiments real world applications and everything you need to bring smart ideas to life Key Features Learn the fundamentals of electronics and how to integrate them with a Raspberry Pi Bring your projects to life through real world scenarios from motion detection to smart lighting Exercises designed to suit hobbyists engineers and educators alike Book DescriptionThe age of connected devices is here be it fitness bands or smart homes It s now more important than ever to understand how hardware components interact with the internet to collect and analyze user data The Internet of Things IoT combined with the popular open source language Python can be used to build powerful and intelligent IoT systems with intuitive interfaces This book consists of three parts with the first focusing on the Internet component of IoT You ll get to grips with end to end IoT app development to control an LED over the internet before learning how to build RESTful APIs WebSocket APIs and MQTT services in Python The second part delves into the fundamentals behind electronics and GPIO interfacing As you progress to the last part you ll focus on the Things aspect of IoT where you will learn how to connect and control a range of electronic sensors and actuators using Python You ll also explore a variety of topics such as motor control ultrasonic sensors and temperature measurement Finally you ll get up to speed with advanced IoT programming techniques in Python integrate with IoT visualization and automation platforms and build a comprehensive IoT project By the end of this book you ll be well versed with IoT development and have the knowledge you need to build sophisticated IoT systems using Python What you will learn Understand electronic interfacing with Raspberry Pi from scratch Gain knowledge of building sensor and actuator electronic circuits Structure your code in Python using Async IO pub sub models and more Automate real world IoT projects using sensor and actuator integration Integrate electronics with ThingSpeak and IFTTT to enable automation Build and use RESTful APIs WebSockets and MQTT with sensors and actuators Set up a Raspberry Pi and Python development environment for IoT projects Who this book is for Whether you re a developer IoT professional or a Python enthusiast curious about hardware this book is for you It s also helpful for software engineers with little to no experience in electronics who want to start building real world IoT and home automation projects Makers educators and tinkerers will find it a practical and approachable guide With clear explanations and hands on projects it makes bringing your code to life enjoyable and achievable   Original Strategies for Training and Educational Initiatives in Bioinformatics Hugo Verli,Raquel Cardoso de Melo Minardi,2022-10-07   *Foundations and Practice of Security* Jean Luc Danger,Mourad Debbabi,Jean-Yves Marion,Joaquin Garcia-Alfaro,Nur Zincir Heywood,2014-03-20 This book constitutes the carefully refereed post proceedings of the 6th Symposium on Foundations and Practice of Security FPS 2013 held in La Rochelle France in October 2013 The 25 revised full papers presented together with a keynote address were carefully reviewed and selected from 65 submissions The papers are organized in topical sections on security protocols formal methods physical security attack classification and assessment access control cipher attacks ad hoc and sensor networks resilience and intrusion detection   *Digital Heritage*

and Archaeology in Practice Ethan Watrall,Lynne Goldstein,2022-06-28   Python for Scientists John M. Stewart,2017-07-20 Scientific Python is a significant public domain alternative to expensive proprietary software packages This book teaches from scratch everything the working scientist needs to know using copious downloadable useful and adaptable code snippets Readers will discover how easy it is to implement and test non trivial mathematical algorithms and will be guided through the many freely available add on modules A range of examples relevant to many different fields illustrate the language s capabilities The author also shows how to use pre existing legacy code usually in Fortran77 within the Python environment thus avoiding the need to master the original code In this new edition several chapters have been re written to reflect the IPython notebook style With an extended index an entirely new chapter discussing SymPy and a substantial increase in the number of code snippets researchers and research students will be able to quickly acquire all the skills needed for using Python effectively

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