Chapter 13 - Advanced Python 2

Virtual Environment
An environment which is same as the system interpretor but is isolated from the other python environments on the system.

Installation Installation
To use virtual environments, we write

pip install virtualenv → Install the package

We create a new environment using:

Virtualenv myprojectenv - creates a new venv

The next step after creating the virtual environment is to activate it.
We can now use this virtual environment as a separate python installation.

pip freeze command
pip freeze returns all the packages installed in
a given python environment along with the versions

pip freeze > requirements txt

The above command creats a file named requirements tot in the same directory containing the output of pip freeze.

We can distribute this file to other users and they can recreate the same environment using:

pip install - r requirements txt
Lambda functions
functions Created using an expression using lambda
Remword
Suntax:
Lambda functions functions created using an expression using lambda keyword Syntax: lambda arguments: expressions Lambda arguments: expressions Finanction
tampar wagamans, construs
Evamble:
Example:
Square = lambaa x . x * x
Square = lambda x: x*x Square (6) -> returns 36
Sum = $ ambda \ a, b, C : a+b+C$ Sum (1, 2, 3) \rightarrow returns 6
Sum (1, 2, 3) - returns 6
'tail tudmi
bin method (Strings) Creates a string from iterable objects
Creates a string from iterable objects
l = ["apple", "mango", "banane"]
THE STATE OF THE PARTY OF THE STATE OF THE S
"and," join (l)
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
The above line will return "apple, and, mango, and, banana"
and and added a so has
Council mather (Steines)
formats the values inside the string into a desired
1 automo tre
output
but Gu of Ch h
template format (p, p2)
- arguments
The content of the co
I the sunther Computer Cive of this manufact and the

Syntax for format looks like:
" { } is a good { 3" · format ("Harry", "boy") -0
" { 1} is a good { 0} · format ("Harry", "boy") - 3
, All MUC
Output for O Harry is a good boy
The state of the s
Output for 3 boy is a good Harry
boy is a good Harry
Map, Filter & Reduce Map applies a function to all the items in an input-list
Map applies a function to all the items in an
input-list"
Guntage can be lambda function
Syntax: Lan be lambda function map (function, input_list)
CII. + 1:1 1 lame for which the function
Filter creates a list of items for which the function returns true.
list (filter (function)) List (filter (function)) Can be a lambda function
Can be a randoux formal
Reduce applies a rolling computation to sequential pair
of elements
Grow Comethole impact reduce
from functools import reduce val = reduce (function, list1) Li can be a lambda function
If the function computes sum of two numbers and the

EDG3 1,2,3,4] => Sequential Computation 10