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NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » **The Joy of Computing using Python (course)**

Announcements (announcements)

About the Course (https://swayam.gov.in/nd1_noc20_cs35/preview) Ask a Question (forum)

Progress (student/home) Mentor (student/mentor)

Programming Assignment-2: Dictionary

Due on 2020-03-12, 23:59 IST

Course outline

How does an NPTEL online course work?

Week 0

Week 1

Week 2

Week 3

week 4

Week 5

Week 6

- Substitution Cipher -The science of secrecy (unit? unit=103&lesson=104)
- Substitution Cipher -The science of secrecy 01

- (unit? unit=103&lesson=105)
- Given a positive integer number n , you have to write a program that generates a dictionary d which contains $(i, i*i*i)$ such that i is the key and $i*i*i$ is its value, where i is from **1 to n (both included)**. Then you have to just print this dictionary d .
- Substitution Cipher -The science of secrecy 02 (unit? unit=103&lesson=106)
- Example:
Input: 4
- will give output as
{1: 1, 2: 8, 3: 27, 4: 64}
- Substitution Cipher -The science of secrecy 03 (unit? unit=103&lesson=107)
- Input Format:**
Take the number n in a single line.
- Tic Tac Toe - Down the memory Lane (unit? unit=103&lesson=108)
- Output Format:**
Print the dictionary d in a single line.
- Example:
Input:
8
- Output:
{1: 1, 2: 8, 3: 27, 4: 64, 5: 125, 6: 216, 7: 343, 8: 512}
- Tic Tac Toe - Down the memory Lane 01 (unit? unit=103&lesson=109)
- Explanation:
Here n is 8, we will start from $i=1$, hence the first element of the dictionary is **(1: 1)**, as i becomes **2**, the second element of the dictionary becomes **(2: 8)** and so on.
Hence the output will be **{1: 1, 2: 8, 3: 27, 4: 64, 5: 125, 6: 216, 7: 343, 8: 512}**.
- Tic Tac Toe - Down the memory Lane 02 (unit? unit=103&lesson=110)
- Sample Test Cases**
- Tic Tac Toe - Down the memory Lane 03 (unit? unit=103&lesson=111)
- | | Input | Output |
|-------------|-------|--|
| Test Case 1 | 1 | {1: 1, 2: 8, 3: 27, 4: 64, 5: 125, 6: 216, 7: 34 |
| | 2 | 3, 8: 512, 9: 729, 10: 1000, 11: 1331, 12: 1728} |
| Test Case 2 | 1 | {1: 1, 2: 8, 3: 27, 4: 64, 5: 125, 6: 216, 7: 34 |
| | 5 | 3, 8: 512, 9: 729, 10: 1000, 11: 1331, 12: 1728, 13: 2197, 14: 2744, 15: 3375} |
| Test Case 3 | 2 | {1: 1, 2: 8, 3: 27, 4: 64, 5: 125, 6: 216, 7: 34 |
| | 5 | 3, 8: 512, 9: 729, 10: 1000, 11: 1331, 12: 1728, 13: 2197, 14: 2744, 15: 3375, 16: 4096, 17: 4913, 18: 5832, 19: 6859, 20: 8000, 21: 9261, 22: 10648, 23: 12167, 24: 13824, 25: 15625} |
| Test Case 4 | 3 | {1: 1, 2: 8, 3: 27} |
| | 4 | |
- Tic Tac Toe - Down the memory Lane 04 (unit? unit=103&lesson=112)
- Tic Tac Toe - Down the memory Lane 05 (unit? unit=103&lesson=113)
- Recursion (unit? unit=103&lesson=114)
- Recursion 01 (unit? unit=103&lesson=115)
- Recursion 02 (unit? unit=103&lesson=116)

Recursion 03
(unit?
unit=103&lesson=117)

Test

Case 4 {1: 1, 2: 8, 3: 27, 4: 64}

5

Test

Case 5 {1: 1, 2: 8, 3: 27, 4: 64, 5: 125}

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Recursion 04
(unit?
unit=103&lesson=118)

Recursion 05
(unit?
unit=103&lesson=119)

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.
Sample solutions (Provided by instructor)

Recursion 06
(unit?
unit=103&lesson=120)

```
1 n=int(input())
2 d=dict()
3 for i in range(1,n+1):
4     d[i]=i*i*i
5
6 print(d)
```

Quiz :
Assignment 6
(assessment?
name=276)

Programming
Assignment-1:
Computing
Paradox
(/noc20_cs35/progassignment?
name=295)

**Programming
Assignment-
2: Dictionary**
(/noc20_cs35/progassignment?
name=296)

Programming
Assignment-3:
Functions
(/noc20_cs35/progassignment?
name=297)

Week 6
Feedback
(unit?
unit=103&lesson=298)

Week 7

Week 8

Week 9

Week 10

Week 11

Week 12

Text Transcripts

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