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reviewer4@nptel.iitm.ac.in ~

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)

## Course outline

How does an NPTEL online course work?

Week 0

Week 1

Week 2

Week 3

week 4

Week 5

Week 6

Week 7

Week 8

Week 9

Week 10

Week 11

## Programming Assignment-1: Formula

Due on 2020-04-16, 23:59 IST

Write a program that calculates and prints the value according to the given formula:

Q = Square root of [(2 \* C \* D)/H]

Following are the fixed values of **C** and **H**:

**C** is 50. **H** is 30.

**D** is the variable whose values should be input to your program in a commaseparated sequence.

Input Format:

A sequence of values for D with each value separated by a comma.

**Output Format:** 

Print the sequence of Q values with each value separated by a comma.

Example:

Input:

100,150,180

Output:

18,22,24

## **Sample Test Cases**

Input		Output
Test Case 1	23,31,24,53,31	9,10,9,13,10
Test Case 2	91,34,51,64,23,54,65,76,2 3,98,45,76,23,43,12	17,11,13,15,9,13,15,16, 9,18,12,16,9,12,6

```
Browser
                              1,2,3,4,5,6,7,8,9,10,21,4
                                                                    2,3,3,4,4,4,5,5,5,6,8,1
  Automation
                        Test
                              3,56,87,23,14,25,36,47,58,
                                                                    2,14,17,9,7,9,11,13,14,1
  Watsapp using
                        Case
                              69, 15, 27, 38, 59, 53, 64, 75, 8
                                                                    5,7,9,11,14,13,15,16,17,
  Python - Part
                        3
                              6,97,97,31
                                                                    18,18,10
  01 (unit?
  unit=201&lesson=202)
                        Test
Browser
                        Case
                              10,20,30,40
                                                                    6,8,10,12
  Automation
                       4
  Watsapp using
                        Test
  Python - Part
                             1,2,3,4,5,6,7,8,9,10
                                                                    2,3,3,4,4,4,5,5,5,6
                        Case
  02 (unit?
                        5
  unit=201&lesson=203)
                        Test
Browser
                             5,1,3,4,2,6,8
                                                                    4,2,3,4,3,4,5
                        Case
  Automation
  Watsapp using
  Python - Part
                       The due date for submitting this assignment has passed.
  03 (unit?
                       As per our records you have not submitted this assignment.
  unit=201&lesson=204)
                       Sample solutions (Provided by instructor)

    Browser

                            import math
c=50
h=30
                         1234567
  Automation
  Watsapp using
                            value = []
items=[x for x in input().split(',')]
  Python - Part
  04 (unit?
                            for d in items:
                                 value.append(str(int(round(math.sqrt(2*c*float(d)/h)))))
  unit=201&lesson=205)
                            print (','.join(value))
Fun with
  Calendar - Part
  01 (unit?
  unit=201&lesson=206)
Fun with
  Calendar - Part
  02 (unit?
  unit=201&lesson=207)
Fun with
  Calendar - Part
  03 (unit?
  unit=201&lesson=208)
Fun with
  Calendar - Part
  04 (unit?
  unit=201&lesson=209)
Fun with
  Calendar - Part
  05 (unit?
  unit=201&lesson=210)
Fun with
  Calendar - Part
  06 (unit?
  unit=201&lesson=211)
Fun with
  Calendar - Part
  07 (unit?
  unit=201&lesson=212)
```

Fun with Calendar - Part 08 (unit? unit=201&lesson=213)
Fun with Calendar - Part 09 (unit? unit=201&lesson=214)
Fun with Calendar - Part 10 (unit? unit=201&lesson=215)
Fun with Calendar - Part 11 (unit? unit=201&lesson=216)
Fun with Calendar - Part 12 (unit? unit=201&lesson=217)
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Programming Assignment-2: word-sorting (/noc20_cs35/progassignment? name=320)
Programming Assignment-3: Numbers (/noc20_cs35/progassignment? name=321)
Week 11 Feedback (unit? unit=201&lesson=322)
Week 12
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