

Spoken Tutorial, IIT Bombay
<https://spoken-tutorial.org>
Python 3.4.3
Plotting Data -Assignments

Assignment-1

1. Plot the given experimental data with large dots.

| ∂l | ∂t |
|--------------|--------------|
| 0.08 | 0.04 |
| 0.09 | 0.08 |
| 0.07 | 0.03 |
| 0.05 | 0.05 |
| 0.06 | 0.03 |
| 0.00 | 0.03 |
| 0.06 | 0.04 |
| 0.06 | 0.07 |
| 0.01 | 0.08 |

Assignment-2

1. Plot the given experimental data with small dots. Also include the error in your plot.

| S | n | ∂S | ∂n |
|------|-------|--------------|--------------|
| 0.19 | 10.74 | 0.006 | 0.61 |
| 0.38 | 14.01 | 0.006 | 0.69 |
| 0.57 | 18.52 | 0.005 | 0.53 |
| 0.77 | 20.23 | 0.003 | 0.38 |
| 0.96 | 22.88 | 0.004 | 0.46 |
| 1.15 | 24.59 | 0.007 | 0.37 |
| 1.34 | 27.55 | 0.004 | 0.46 |
| 1.54 | 28.48 | 0.004 | 0.46 |
| 1.73 | 30.20 | 0.007 | 0.37 |

Assignment-3

1. Square the following sequence.
➤ `distance_values = [2.1,4.6,8.72,9.03]`
2. Plot l versus t in red pluses from the Simple Pendulum Data.