**Table-1 : (For k =100N/m)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Trial** | **Spring constant(N/m)** | **Applied force(N)** | **Spring Force(N)** | **Displacement (m)** |
| **1** | **100** | **0** | **0** | 0.000 |
| **2** | **5** | **5** | 0.050 |
| **3** | **10** | **10** | 0.100 |
| **4** | **15** | **15** | 0.150 |
| **5** | **20** | **20** | 0.200 |
| **6** | **25** | **25** | 0.250 |
| **7** | **30** | **30** | 0.300 |
| **8** | **35** | **35** | 0.350 |
| **9** | **40** | **40** | 0.400 |
| **10** | **45** | **45** | 0.450 |

**Table-2 : (For k =500N/m)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Trial** | **Spring constant(N/m)** | **Applied force(N)** | **Spring Force(N)** | **Displacement (m)** |
| **1** | **500** | **0** | **0** | 0.000 |
| **2** | **5** | **5** | 0.010 |
| **3** | **10** | **10** | 0.020 |
| **4** | **15** | **15** | 0.030 |
| **5** | **20** | **20** | 0.040 |
| **6** | **25** | **25** | 0.050 |
| **7** | **30** | **30** | 0.060 |
| **8** | **35** | **35** | 0.070 |
| **9** | **40** | **40** | 0.080 |
| **10** | **45** | **45** | 0.090 |

**Table-3 : (For k =1000N/m)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Trial** | **Spring constant(N/m)** | **Applied force(N)** | **Spring Force(N)** | **Displacement (m)** |
| **1** | **1000** | **0** | **0** | 0.000 |
| **2** | **5** | **5** | 0.005 |
| **3** | **10** | **10** | 0.010 |
| **4** | **15** | **15** | 0.015 |
| **5** | **20** | **20** | 0.020 |
| **6** | **25** | **25** | 0.025 |
| **7** | **30** | **30** | 0.030 |
| **8** | **35** | **35** | 0.035 |
| **9** | **40** | **40** | 0.040 |
| **10** | **45** | **45** | 0.045 |