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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Trial** | **Spring constant(N/m)** | **Applied force(N)** | **Spring Force(N)** | **Displacement (m)** |
| **1** | **100** | **0** | **0** | **0** |
| **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** |
| **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** |
| **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** |