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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Trial** | **Spring constant(N/m)** | **Applied force(N)** | **Spring Force(N)** | **Displacement (m)** |
| **1** | **100** | **0** | **0N** | **0.00m** |
| **2** | **5** | **5N** | **0.050m** |
| **3** | **10** | **10N** | **0.100m** |
| **4** | **15** | **15N** | **0.150m** |
| **5** | **20** | **20N** | **0.200m** |
| **6** | **25** | **25N** | **0.250m** |
| **7** | **30** | **30N** | **0.300m** |
| **8** | **35** | **35N** | **0.350m** |
| **9** | **40** | **40N** | **0.400m** |
| **10** | **45** | **45N** | **0.450m** |

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

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

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

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