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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Trial** | **Spring constant(N/m)** | **Applied force(N)** | **Spring Force(N)** | **Displacement (m)** |
| **1** | **100** | **0** |  |  |
| **2** | **5** |  |  |
| **3** | **10** |  |  |
| **4** | **15** |  |  |
| **5** | **20** |  |  |
| **6** | **25** |  |  |
| **7** | **30** |  |  |
| **8** | **35** |  |  |
| **9** | **40** |  |  |
| **10** | **45** |  |  |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Trial** | **Spring constant(N/m)** | **Applied force(N)** | **Spring Force(N)** | **Displacement (m)** |
| **1** | **500** | **0** |  |  |
| **2** | **5** |  |  |
| **3** | **10** |  |  |
| **4** | **15** |  |  |
| **5** | **20** |  |  |
| **6** | **25** |  |  |
| **7** | **30** |  |  |
| **8** | **35** |  |  |
| **9** | **40** |  |  |
| **10** | **45** |  |  |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Trial** | **Spring constant(N/m)** | **Applied force(N)** | **Spring Force(N)** | **Displacement (m)** |
| **1** | **1000** | **0** |  |  |
| **2** | **5** |  |  |
| **3** | **10** |  |  |
| **4** | **15** |  |  |
| **5** | **20** |  |  |
| **6** | **25** |  |  |
| **7** | **30** |  |  |
| **8** | **35** |  |  |
| **9** | **40** |  |  |
| **10** | **45** |  |  |