LabVIEW is a graphical programming language which is used data acquisition, instrument control, and measurement analysis and data presentation for scientific and engineering applications. Significant numbers of scientists and engineers use LabVIEW, which provides a highly productive development environment for creating custom applications that interact with real-world data or signals in fields such as science and engineering for test, measurement and developing control applications. The many benefits of LabVIEW in academic research and scientific computing applications including flexible design, ability to solve and execute complex algorithms in real time, academic-to-industry transition easier, technology transfer more transparent, support multiplatform, shorter time to prototype, help to develop better and faster algorithms, and many similar characteristics. In this study examines advantages and disadvantages of LabVIEW for engineering applications are discussed. Keywords: LabVIEW, advantages of LabVIEW, disadvantages of LabVIEW, Engineering applications.