Biodiversity is of crucial importance for ecosystem health and functioning. It is thus one of the most important topics in the various disciplines of the Natural Science. Various indices have been developed to measure biodiversity. By using those indices, biodiversity can be calculated at alpha (within a given site), beta (between the sites) and gamma (total) levels. Due to presence of many indices for calculating of biodiversity components (i.e. alpha, beta and gamma), employment of the diversity indices with alternative techniques by the researchers will provide an important advantage to arrive more productive and accurate results in their studies. The information obtained from such studies are particularly important from identification of the policies and implementations for conservation and sustainability of the biodiversity in the natural ecosystems point of view. In this sense, by thinking as an important demand for the researchers in Turkey, it was thought that making a software called by our study team as “A Software for Measuring Biodiversity components (BİÇEP)” can be useful. In another words, In the present study, it was aimed to prepare a software including calculations of alpha, beta an gamma components of biodiversity. This software include species richness measures, heterogeneity measures and species abundance models at alpha level and beta and gamma computations between two communities, and among the communities more than two by using binary and abundance data. The software was designed by considering accessibility on internet and become user-friendly intended for the researchers in direct or indirect relation to biodiversity topic. In this study, it was aimed to introduce this software and make the corrections based on the feedbacks.