This paper presents a methodology of the computer simulation platform of programming language education for deaf/hard-of-hearing learners, develops a deaf education simulation platform to the programme, and describes research on using the modern education techniques and IT in special education.With the disability compensation and skill training, the knowledge of the modern technology is been taught to the deaf /hard-of-hearing students. With using the platform in special higher education, the result expresses the platform can be well used, the visual representation of information has a view of high efficiency for education, and the platform promotes the change of high teaching mode in the school, also have a function to the teaching research of language study. It show that its terrace contributes to the ability which raises a student to analyze a problem synthesizingly, and develops a creative ability to promote available teaching.