In this study, the entrepreneurship susceptibility of the university students from Gen Y has been researched depending on their personality characteristics. The participants consist of the third and fourth year students who study in from the Faculty of Business Administration and the Department of Industrial Engineering of state and private universities in Istanbul and Isparta. Within the scope of this study, 518 university students have been participated in the study. Entrepreneurship Scale and Five Factor Personality Inventory, developed by John et al. (1991), have been used for the research. According to the survey, neuroticism, openness to experience, agreeableness (compatibility) and conscientiousness (self-discipline) is a significant relationship between personality traits and entrepreneurship. Key Words: Generation Y, Enterprise, Entrepreneurship, Entrepreneurship Dispositions.