In this thesis, we will discuss existence of hamiltonian cycles in Kneser graphs: graphs $K(n,k)$ with vertex set corresponding to k-element subsets from set of n elements, and vertices will be adjacent if and only if their corresponding k-sets are disjoint. Lovász's conjecture about vertex transitive graphs implies hamiltonicity of Kneser graphs for $n \geq 2k+1$. Chen proved that $K(n,k)$ are hamiltonian for $n \geq 3k$. Later she improved her result to $n \geq 2.6k+1$. In both cases she used Baranyai's partition theorem. Recent proof of Middle levels conjecture allowed to show hamiltonicity of bipartite Kneser graphs. We will get familiar with some these results.