Kaneenika Sinha* (kaneenik@ualberta.ca), Department of Mathematics, University of Alberta, Edmonton, Alberta T6G2G1, Canada. *Ranks of Jacobians of modular curves. Let $J_0(N)$ denote the Jacobian variety of the modular curve $X_0(N)$. We obtain upper bounds on ranks of these abelian varieties using arithmetic information about Fourier coefficients of newforms of weight 2 and level $N$. (Received September 15, 2009)