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Reza R Ahangar* (reza.ahangar@tamuk.edu), MSC 172, math Department, 700 University BLVD, Teaxs A & M University-Kingsville, Kingsville, Texas 78363. *Computational Approach to the Solution of Random Pertubed Logistic Model*. Preliminary report.

Consider a classical stochastic differential equation $dX(t)=X(t).(a-bX(t))+c.W(t)dW$ (1) (where $X(t)$ is a solution and $W(t)$ is a Brownian motion with a normal distribution of mean zero and standard deviation one. For constant real numbers a , b , and c , we define stochastic logistic differential equation(1). The solution to this logistic stochastic differential equation (1) can be introduced by Ito's integral calculus. Our goal is to estimate the solution using Riemann-Stieltjes integral where a function $g(t)=W(t)$ does not have to be a differentiable function but it has to be a function of bounded variation. (Received September 13, 2010)