For example, Suppose there are 5 different processes as given below: Let us Suppose for the a bove processes ,the time quantum to be 10 ns then the Gantt Chart for Round robin scheduling i s: Chart:1 Gantt Chart The characteristic of good scheduling algorithm are: Total Wait time 52 12 57 15 90 23 108 37 Minimum context switches, Maximum CPU utilization, Maximum t hroughput,Minimum turnaround time , Minimum Now Average Waiting time will be: 300 5 60 101 21 300 waiting time Turn around time 52 57 90 108 101 408 Average turn around ti me 408 5 81 2016, IRJET Impact Factor value: 4.45 ISO 9001:2008 Certified Journal P age 1358 International Research Journal of Engineering and Technology (IRJET) e ISSN: 2395 00 56 Volume: 03 Issue: 03 Mar 2016 www.irjet.net p ISSN: 2395 0072 The main disadvantage drawb ack in this RR is that 2.2 Flowchart: Average turn around time and Average Waiting time is mor e and mainly context switching is too much which makes the algorithm very inefficient. End Cha rt 1: Flow chart for the algorithm Illustration Let us assume five processes with their burst time as given below: Process Burst time P1 P2 P3 P4 P5 13 35 46 63 97 Table 2: Processes burst time chart Now, as per the algorithm Time Quantum is calculated as follows Time Quantum (TQ) Ceil (sqrt (median highest Burst time)) TQ Ceil (sqrt(46 97)) 67 So the Gantt chart is: A. P1 B. P2 C. P3 D. P4 E. P5 F. P5 0 13 48 94 157 224 254 Chart 2: Gantt Chart Here, Numb er of Context Switches 5 2016, IRJET Impact Factor value: 4.45 ISO 9001:2008 Certified Journal Page 1359 International Research Journal of Engineering and Technology (IRJET) e IS SN: 2395 0056 Volume: 03 Issue: 03 Mar 2016 www.irjet.net p ISSN: 2395 0072 Average Waiting Time (0 13 48 94 157) 5 62.4 Average Turn around Time (13 48 94 157 254) 5 113.2 Now if we implement the same illustration by round robin algorithm then in this manner time qu antum is 25 in above case and hence context switch comes out to be 11 and average waiting time also becomes 97.4 and average turnaround time comes out to be 148.2 3.