LAB : Round Robin Scheduling Algorithm

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**Aim**: Implementation of Round Robin Scheduling Algorithm

Code-

import java.util.Scanner;

public class ROBIN {

public static void main(String args[]) {

Scanner s = new Scanner(System.in);

int wtime[],btime[],rtime[],num,quantum,total;

wtime = new int[10];

btime = new int[10];

rtime = new int[10];

System.out.print("Enter number of processes(MAX 10): ");

num = s.nextInt();

System.out.print("Enter burst time");

for(int i=0;i<num;i++) { System.out.print("\nP["+(i+1)+"]: "); btime[i] = s.nextInt(); rtime[i] = btime[i];

wtime[i]=0; } System.out.print("\n\nEnter quantum: "); quantum = s.nextInt(); int rp = num; int i=0; int time=0;

System.out.print("0"); wtime[0]=0; while(rp!=0) { if(rtime[i]>quantum)

{

rtime[i]=rtime[i]-quantum;

System.out.print(" | P["+(i+1)+"] | ");

time+=quantum;

System.out.print(time);

}

else if(rtime[i]<=quantum && rtime[i]>0)

{time+=rtime[i];

rtime[i]=rtime[i]-rtime[i];

System.out.print(" | P["+(i+1)+"] | ");

rp--;

System.out.print(time);

}

i++;

if(i==num)

{

i=0;

}

}

}

}Output:

