OPERATING SYSTEM - CS23431

EXP 6(D)

ROUND ROBIN CHEDULING

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PROGRAM:

```
#include <stdio.h>

int main() {
 int n;
 printf("Enter number of processes: ");
 scanf("%d", &n);

 int p[n], a[n], bt[n], temptbt[n], slot;
 printf("Enter process ID, arrival time, burst time for each process:\n");
for (int i = 0; i < n; i++) {
 scanf("%d %d %d", &p[i], &a[i], &bt[i]);
 temptbt[i] = bt[i];
 }

 printf("Enter quantum time slot: ");
 scanf("%d", &slot);

 int totalwt = 0, totalturn = 0, totaltime = 0;
```

```
 int i = 0, count = 0, completed = 0;


 printf("P_ID\tBT\tTAT\tWT\n");
 while (completed != n) {
 if (temptbt[i] <= slot && temptbt[i] > 0) {
totaltime += temptbt[i];
 temptbt[i] = 0;
 count = 1;
 }
 else if (temptbt[i] > 0) {
 totaltime += slot;
 temptbt[i] -= slot;
 }


 if (temptbt[i] == 0 && count == 1) {
completed++;
 int tat = totaltime - a[i];
 int wt = totaltime - a[i] - bt[i];
 printf("%d\t%d\t%d\t%d\n", p[i], bt[i], tat, wt);
totalwt += wt;
 totalturn += tat;
 count = 0;
 }


 if (i == n - 1)
```

```
i = 0;

else

i++;

}
printf("Average waiting time is %d\n", totalwt / n);

printf("Average turn around time is %d\n", totalturn / n);


return 0;

}
```

OUTPUT: