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EXP-8:-
PROGRAM:-
#include <stdio.h>
#define MAX 10
struct Process {
  int id;
  int burst_time;
  int remaining_time;
};
void round_robin(struct Process processes[], int n, int quantum) {
  int time = 0;
  int completed = 0;
  while (completed < n) {
    for (int i = 0; i < n; i++) {
      if (processes[i].remaining_time > 0) {
         if (processes[i].remaining_time > quantum) {
           time += quantum;
           processes[i].remaining_time -= quantum;
        } else {
           time += processes[i].remaining_time;
           processes[i].remaining_time = 0;
           completed++;
           printf("Process %d completed at time %d\n", processes[i].id, time);
        }
      }
    }
  }
}
int main() {
  struct Process processes[MAX];
  int n, quantum;
```

```
printf("Enter number of processes: ");
scanf("%d", &n);
printf("Enter time quantum: ");
scanf("%d", &quantum);
for (int i = 0; i < n; i++) {
    processes[i].id = i + 1;
    printf("Enter burst time for process %d: ", processes[i].id);
    scanf("%d", &processes[i].burst_time);
    processes[i].remaining_time = processes[i].burst_time;
}
round_robin(processes, n, quantum);
return 0;
}
OUTPUT:-</pre>
```

```
Enter number of processes: 3
Enter time quantum: 2
Enter burst time for process 1: 8
Enter burst time for process 2: 15
Enter burst time for process 3: 20
Process 1 completed at time 20
Process 2 completed at time 37
Process 3 completed at time 43
=== Code Execution Successful ===
```