Write a C program to simulate Real-Time CPU Scheduling algorithms:

- a) Rate- Monotonic
- b) Earliest-deadline First
- c) Proportional scheduling

Input:

```
rate monotonic(tasks, num_tasks);
earliest_deadline_first(tasks, num_tasks);

print'('\ncompletion times for the first two tasks:\n");

f(num_tasks >= 1) {
    print'('\ncompletion times for the first two tasks:\n");

f(num_tasks >= 2) {
    print'('Task 1 (ID=Md) Completion Time: %d\n", tasks[0].id, tasks[0].completion_time);
}

return 0;
}

return 0;

for (int i = 0; i < num_tasks = 1; j++) {
    if (tasks[j].period) tasks[j];
    tasks[j] tasks[j] + 1];
    tasks[j] tasks[j] + tasks[j] + 1];

tasks[j] + tasks[j] + tasks[j] + 1];

for (int i = 0; i < num_tasks = i; j++) {
    if (tasks[j].completion_time);
}

int current_time = 0;
for (int i = 0; i < num_tasks; i++) {
    tasks[j] + tasks[j] +
```

Output:

```
Enter the number of tasks: 3
Enter the details of each task (id, period, deadline, computation time):
Task 1: 1
Task 2: 2
10
10
Task 3: 3
User Inputs:
Task 1: ID=1, Period=5, Deadline=5, Computation Time=2
Task 2: ID=2, Period=10, Deadline=10, Computation Time=1
Task 3: ID=3, Period=7, Deadline=7, Computation Time=3
Rate-Monotonic Scheduling:
Task 1 scheduled (Completion Time: 2)
Task 3 scheduled (Completion Time: 5)
Task 2 scheduled (Completion Time: 6)
Earliest-Deadline First Scheduling:
Task 1 scheduled (Completion Time: 2)
Task 3 scheduled (Completion Time: 5)
Task 2 scheduled (Completion Time: 6)
Proportional Scheduling:
Task 1 gets 45.16% of CPU time
Task 3 gets 32.26% of CPU time
Task 2 gets 22.58% of CPU time
```