Certainly! Here are 10 questions on FCFS scheduling with answers:

1. **Question 1:** Given the arrival times and burst times of processes, perform FCFS scheduling and calculate the average waiting time. Arrival Time: [0, 1, 2, 3, 4] Burst Time: [4, 2, 6, 1, 3]

   Answer: Gantt Chart: | P1 | P2 | P3 | P4 | P5 | Average Waiting Time: 5.2 units

2. **Question 2:** Solve the FCFS scheduling problem with the following arrival times and burst times: Arrival Time: [0, 2, 4, 6, 8] Burst Time: [3, 5, 1, 4, 2]

   Answer: Gantt Chart: | P1 | P2 | P3 | P4 | P5 | Average Waiting Time: 6.8 units

3. **Question 3:** Compute the completion time, turnaround time, and waiting time for the given processes in FCFS scheduling: Arrival Time: [0, 1, 3, 5, 7] Burst Time: [4, 2, 6, 3, 5]

   Answer: Completion Time: [4, 6, 12, 15, 20] Turnaround Time: [4, 5, 9, 10, 13] Waiting Time: [0, 3, 6, 5, 8]

4. **Question 4:** Apply FCFS scheduling to the following processes and compute the average turnaround time: Arrival Time: [0, 1, 3, 5, 7] Burst Time: [3, 6, 2, 4, 5]

   Answer: Average Turnaround Time: 10.6 units

5. **Question 5:** Perform FCFS scheduling for the given processes and calculate the average completion time: Arrival Time: [0, 1, 2, 4, 6] Burst Time: [5, 3, 2, 4, 6]

   Answer: Average Completion Time: 11 units

6. **Question 6:** Given the arrival times and burst times, determine the Gantt chart and average waiting time for FCFS scheduling: Arrival Time: [0, 2, 4, 6, 8] Burst Time: [3, 1, 5, 2, 4]

   Answer: Gantt Chart: | P1 | P2 | P3 | P4 | P5 | Average Waiting Time: 3.4 units

7. **Question 7:** Solve the FCFS scheduling problem for the following processes and calculate the average turnaround time: Arrival Time: [0, 1, 3, 4, 6] Burst Time: [2, 5, 3, 4, 1]

   Answer: Average Turnaround Time: 8.4 units

8. **Question 8:** Compute the completion time, turnaround time, and waiting time for the given processes in FCFS scheduling: Arrival Time: [0, 1, 2, 4, 6] Burst Time: [4, 2, 5, 3, 6]

   Answer: Completion Time: [4, 6, 11, 14, 20] Turnaround Time: [4, 5, 9, 10, 14] Waiting Time: [0, 3, 6, 6, 8]

9. **Question 9:** Apply FCFS scheduling to the following processes and compute the average completion time: Arrival Time: [0, 2, 3, 5, 7] Burst Time: [3, 4, 2, 5, 1]

   Answer: Average Completion Time: 10 units

10. **Question 10:** Perform FCFS scheduling for the given processes and calculate the average waiting time: Arrival Time: [0, 1, 2, 3, 5] Burst Time: [4, 3, 5, 2, 6]

    Answer: Average Waiting Time: 6.4 units

Certainly! Here are 10 questions on Shortest Job First (SJF) scheduling with answers, including Gantt charts:

1. **Question 1:** Given the arrival times and burst times of processes, perform SJF scheduling and calculate the average waiting time. Arrival Time: [0, 1, 2, 3, 4] Burst Time: [4, 2, 6, 1, 3]

   Answer: Gantt Chart: | P4 | P2 | P5 | P1 | P3 | Average Waiting Time: 3.6 units

2. **Question 2:** Solve the SJF scheduling problem with the following arrival times and burst times: Arrival Time: [0, 2, 4, 6, 8] Burst Time: [3, 5, 1, 4, 2]

   Answer: Gantt Chart: | P3 | P1 | P5 | P4 | P2 | Average Waiting Time: 2.2 units

3. **Question 3:** Compute the completion time, turnaround time, and waiting time for the given processes in SJF scheduling: Arrival Time: [0, 1, 3, 5, 7] Burst Time: [4, 2, 6, 3, 5]

   Answer: Gantt Chart: | P2 | P4 | P1 | P5 | P3 | Average Waiting Time: 3.6 units

4. **Question 4:** Apply SJF scheduling to the following processes and compute the average turnaround time: Arrival Time: [0, 1, 3, 5, 7] Burst Time: [3, 6, 2, 4, 5]

   Answer: Gantt Chart: | P3 | P1 | P4 | P5 | P2 | Average Turnaround Time: 10 units

5. **Question 5:** Perform SJF scheduling for the given processes and calculate the average completion time: Arrival Time: [0, 1, 2, 4, 6] Burst Time: [5, 3, 2, 4, 6]

   Answer: Gantt Chart: | P3 | P4 | P2 | P1 | P5 | Average Completion Time: 10.6 units

6. **Question 6:** Given the arrival times and burst times, determine the Gantt chart and average waiting time for SJF scheduling: Arrival Time: [0, 2, 4, 6, 8] Burst Time: [3, 1, 5, 2, 4]

   Answer: Gantt Chart: | P2 | P4 | P1 | P5 | P3 | Average Waiting Time: 2.2 units

7. **Question 7:** Solve the SJF scheduling problem for the following processes and calculate the average turnaround time: Arrival Time: [0, 1, 3, 4, 6] Burst Time: [2, 5, 3, 4, 1]

   Answer: Gantt Chart: | P5 | P1 | P3 | P4 | P2 | Average Turnaround Time: 7.2 units

8. **Question 8:** Compute the completion time, turnaround time, and waiting time for the given processes in SJF scheduling: Arrival Time: [0, 1, 2, 4, 6] Burst Time: [4, 2, 5, 3, 6]

   Answer: Gantt Chart: | P2 | P1 | P4 | P3 | P5 | Average Waiting Time: 3.6 units

9. **Question 9:** Apply SJF scheduling to the following processes and compute the average completion time: Arrival Time: [0, 2, 3, 5, 7] Burst Time: [3, 4, 2, 5, 1]

   Answer: Gantt Chart: | P5 | P3 | P1 | P2 | P4 | Average Completion Time: 8 units

10. **Question 10:** Perform SJF scheduling for the given processes and calculate the average waiting time: Arrival Time: [0, 1, 2, 3, 5] Burst Time: [4, 3, 5, 2, 6]

    Answer: Gantt Chart: | P4 | P2 | P1 | P3 | P5 | Average Waiting Time: 5.2 units

Certainly! Here are 10 questions on Shortest Remaining Time First (SRTF) scheduling with answers, including Gantt charts:

1. **Question 1:** Given the arrival times and burst times of processes, perform SRTF scheduling and calculate the average waiting time. Arrival Time: [0, 1, 2, 3, 4] Burst Time: [4, 2, 6, 1, 3]

   Answer: Gantt Chart: | P1 | P2 | P4 | P5 | P3 | Average Waiting Time: 2.2 units

2. **Question 2:** Solve the SRTF scheduling problem with the following arrival times and burst times: Arrival Time: [0, 2, 4, 6, 8] Burst Time: [3, 5, 1, 4, 2]

   Answer: Gantt Chart: | P3 | P5 | P1 | P4 | P2 | Average Waiting Time: 1.6 units

3. **Question 3:** Compute the completion time, turnaround time, and waiting time for the given processes in SRTF scheduling: Arrival Time: [0, 1, 3, 5, 7] Burst Time: [4, 2, 6, 3, 5]

   Answer: Gantt Chart: | P2 | P4 | P1 | P5 | P3 | Average Waiting Time: 1.8 units

4. **Question 4:** Apply SRTF scheduling to the following processes and compute the average turnaround time: Arrival Time: [0, 1, 3, 5, 7] Burst Time: [3, 6, 2, 4, 5]

   Answer: Gantt Chart: | P3 | P1 | P5 | P2 | P4 | Average Turnaround Time: 10 units

5. **Question 5:** Perform SRTF scheduling for the given processes and calculate the average completion time: Arrival Time: [0, 1, 2, 4, 6] Burst Time: [5, 3, 2, 4, 6]

   Answer: Gantt Chart: | P3 | P4 | P5 | P2 | P1 | Average Completion Time: 12 units

6. **Question 6:** Given the arrival times and burst times, determine the Gantt chart and average waiting time for SRTF scheduling: Arrival Time: [0, 2, 4, 6, 8] Burst Time: [3, 1, 5, 2, 4]

   Answer: Gantt Chart: | P2 | P4 | P5 | P1 | P3 | Average Waiting Time: 0.6 units

7. **Question 7:** Solve the SRTF scheduling problem for the following processes and calculate the average turnaround time: Arrival Time: [0, 1, 3, 4, 6] Burst Time: [2, 5, 3, 4, 1]

   Answer: Gantt Chart: | P5 | P1 | P3 | P4 | P2 | Average Turnaround Time: 6.6 units

8. **Question 8:** Compute the completion time, turnaround time, and waiting time for the given processes in SRTF scheduling: Arrival Time: [0, 1, 2, 4, 6] Burst Time: [4, 2, 5, 3, 6]

   Answer: Gantt Chart: | P2 | P1 | P4 | P3 | P5 | Average Waiting Time: 2.2 units

9. **Question 9:** Apply SRTF scheduling to the following processes and compute the average completion time: Arrival Time: [0, 2, 3, 5, 7] Burst Time: [3, 4, 2, 5, 1]

   Answer: Gantt Chart: | P5 | P3 | P1 | P2 | P4 | Average Completion Time: 8 units

10. **Question 10:** Perform SRTF scheduling for the given processes and calculate the average waiting time: Arrival Time: [0, 1, 2, 3, 5] Burst Time: [4, 3, 5, 2, 6]

    Answer: Gantt Chart: | P4 | P2 | P5 | P3 | P1 | Average Waiting Time: 2.8 units

Sure! Here are 10 questions on Non-Preemptive Priority Scheduling with answers:

1. **Question 1:** Given the arrival times, burst times, and priorities of processes, perform Non-Preemptive Priority Scheduling and calculate the average waiting time. Arrival Time: [0, 1, 2, 3, 4] Burst Time: [4, 2, 6, 1, 3] Priority: [3, 2, 1, 4, 2]

   Answer: Gantt Chart: | P3 | P1 | P5 | P2 | P4 | Average Waiting Time: 1.8 units

2. **Question 2:** Solve the Non-Preemptive Priority Scheduling problem with the following arrival times, burst times, and priorities: Arrival Time: [0, 2, 4, 6, 8] Burst Time: [3, 5, 1, 4, 2] Priority: [2, 3, 1, 4, 2]

   Answer: Gantt Chart: | P3 | P1 | P5 | P4 | P2 | Average Waiting Time: 2.2 units

3. **Question 3:** Compute the completion time, turnaround time, and waiting time for the given processes in Non-Preemptive Priority Scheduling: Arrival Time: [0, 1, 3, 5, 7] Burst Time: [4, 2, 6, 3, 5] Priority: [3, 2, 1, 4, 2]

   Answer: Gantt Chart: | P3 | P1 | P5 | P2 | P4 | Average Waiting Time: 1.8 units

4. **Question 4:** Apply Non-Preemptive Priority Scheduling to the following processes and compute the average turnaround time: Arrival Time: [0, 1, 3, 5, 7] Burst Time: [3, 6, 2, 4, 5] Priority: [2, 3, 1, 4, 2]

   Answer: Gantt Chart: | P3 | P1 | P5 | P4 | P2 | Average Turnaround Time: 9.8 units

5. **Question 5:** Perform Non-Preemptive Priority Scheduling for the given processes and calculate the average completion time: Arrival Time: [0, 1, 2, 4, 6] Burst Time: [5, 3, 2, 4, 6] Priority: [3, 2, 1, 4, 2]

   Answer: Gantt Chart: | P3 | P2 | P5 | P1 | P4 | Average Completion Time: 11 units

6. **Question 6:** Given the arrival times, burst times, and priorities, determine the Gantt chart and average waiting time for Non-Preemptive Priority Scheduling: Arrival Time: [0, 2, 4, 6, 8] Burst Time: [3, 1, 5, 2, 4] Priority: [2, 3, 1, 4, 2]

   Answer: Gantt Chart: | P3 | P5 | P1 | P4 | P2 | Average Waiting Time: 1.4 units

7. **Question 7:** Solve the Non-Preemptive Priority Scheduling problem for the following processes and calculate the average turnaround time: Arrival Time: [0, 1, 3, 4, 6] Burst Time: [2, 5, 3, 4, 1] Priority: [2, 3, 1, 4, 2]

   Answer: Gantt Chart: | P3 | P1 | P5 | P4 | P2 | Average Turnaround Time: 5.2 units

8. **Question 8:** Compute the completion time, turnaround time, and waiting time for the given processes in Non-Preemptive Priority Scheduling: Arrival Time: [0, 1, 2, 4, 6] Burst Time: [4, 2, 5, 3, 6] Priority: [2, 3, 1, 4, 2]

   Answer: Gantt Chart: | P3 | P2 | P1 | P5 | P4 | Average Waiting Time: 1.8 units

9. **Question 9:** Apply Non-Preemptive Priority Scheduling to the following processes and compute the average completion time: Arrival Time: [0, 2, 3, 5, 7] Burst Time: [3, 4, 2, 5, 1] Priority: [2, 3, 1, 4, 2]

   Answer: Gantt Chart: | P3 | P1 | P5 | P2 | P4 | Average Completion Time: 6 units

10. **Question 10:** Perform Non-Preemptive Priority Scheduling for the given processes and calculate the average waiting time: Arrival Time: [0, 1, 2, 3, 5] Burst Time: [4, 3, 5, 2, 6] Priority: [2, 3, 1, 4, 2]

    Answer: Gantt Chart: | P3 | P1 | P5 | P2 | P4 | Average Waiting Time: 1.6 units

Question 1:

Consider the following set of processes with their attributes:

Process ID	Priority	Arrival Time	Burst Time
P1	3	0	4
P2	1	1	3
P3	2	2	2
P4	2	3	5

Assume preemptive priority scheduling. Time quantum is 1 unit. Calculate the average waiting time for each process.

Average Waiting Time:
Average Waiting Time=45+0+1+6=412=3 units

2. **Question 2:**

Consider the following set of processes with their attributes:

Process ID	Priority	Arrival Time	Burst Time
P1	2	0	5
P2	1	1	3
P3	3	2	4
P4	2	3	2

Assume preemptive priority scheduling. Time quantum is 1 unit. Calculate the average waiting time for each process.

3. **Question 3:**

Consider the following set of processes with their attributes:

Process ID	Priority	Arrival Time	Burst Time
P1	3	0	2
P2	2	1	4
P3	1	2	3
P4	2	3	5
P5	3	4	2

Assume preemptive priority scheduling. Time quantum is 1 unit. Calculate the average waiting time for each process.

4. **Question 4:**

Consider the following set of processes with their attributes:

Process ID	Priority	Arrival Time	Burst Time
P1	1	0	3
P2	2	1	4
P3	3	2	2
P4	2	3	5

Process ID	Priority	Arrival Time	Burst Time
P5	3	4	3

Assume preemptive priority scheduling. Time quantum is 1 unit. Calculate the average waiting time for each process.

5. **Question 5:**

Consider the following set of processes with their attributes:

Process ID	Priority	Arrival Time	Burst Time
P1	3	0	5
P2	2	1	3
P3	1	2	4
P4	2	3	2
P5	3	4	5

Assume preemptive priority scheduling. Time quantum is 1 unit. Calculate the average waiting time for each process.

6. **Question 6:**

Consider the following set of processes with their attributes:

Process ID	Priority	Arrival Time	Burst Time
P1	2	0	3
P2	1	1	2
P3	3	2	4
P4	2	3	5
P5	1	4	3

Assume preemptive priority scheduling. Time quantum is 1 unit. Calculate the average waiting time for each process.

7. **Question 7:**

Consider the following set of processes with their attributes:

Process ID	Priority	Arrival Time	Burst Time
P1	1	0	4
P2	3	1	3
P3	2	2	2
P4	3	3	5
P5	2	4	3

Assume preemptive priority scheduling. Time quantum is 1 unit. Calculate the average waiting time for each process.

8. **Question 8:**

Consider the following set of processes with their attributes:

Process ID	Priority	Arrival Time	Burst Time
P1	2	0	2
P2	3	1	4

Process ID	Priority	Arrival Time	Burst Time
P3	1	2	3
P4	2	3	2
P5	1	4	5

Assume preemptive priority scheduling. Time quantum is 1 unit. Calculate the average waiting time for each process.

9. **Question 9:**

Consider the following set of processes with their attributes:

Process ID	Priority	Arrival Time	Burst Time
P1	1	0	5
P2	2	1	3
P3	3	2	4
P4	1	3	2
P5	2	4	5

Assume preemptive priority scheduling. Time quantum is 1 unit. Calculate the average waiting time for each process.

10. **Question 10:**

Consider the following set of processes with their attributes:

Process ID	Priority	Arrival Time	Burst Time
P1	3	0	3
P2	1	1	4
P3	2	2	2
P4	2	3	5
P5	1	4	3

Assume preemptive priority scheduling. Time quantum is 1 unit. Calculate the average waiting time for each process.