b. Round Robin

```
#include <stdio.h>
#define MAX_PROC 10
int main() {
  int numProcs, timeQuantum, clock = 0, completed = 0;
  int arrivalTime[MAX_PROC], burstTime[MAX_PROC], remainingTime[MAX_PROC];
  int waitTime[MAX_PROC] = {0}, turnAroundTime[MAX_PROC] = {0};
  printf("Enter the number of processes: ");
  scanf("%d", &numProcs);
  printf("Enter the arrival and burst times for each process:\n");
  for (int i = 0; i < numProcs; i++) {
    scanf("%d %d", &arrivalTime[i], &burstTime[i]);
    remainingTime[i] = burstTime[i];
  }
  printf("Enter the time quantum: ");
  scanf("%d", &timeQuantum);
  while (completed < numProcs) {
    completed = 0;
    for (int i = 0; i < numProcs; i++) {
       if (remainingTime[i] > 0 && arrivalTime[i] <= clock) {</pre>
         if (remainingTime[i] > timeQuantum) {
           clock += timeQuantum;
           remainingTime[i] -= timeQuantum;
         } else {
           clock += remainingTime[i];
           waitTime[i] = clock - arrivalTime[i] - burstTime[i];
           turnAroundTime[i] = clock - arrivalTime[i];
           remainingTime[i] = 0;
       if (remainingTime[i] == 0) completed++;
    if (completed < numProcs) clock++;
  printf("Process\tWaiting Time\tTurnaround Time\n");
```

b. Round Robin

```
for (int i = 0; i < numProcs; i++) {
    printf("%d\t%d\n", i+1, waitTime[i], turnAroundTime[i]);
  }
 return 0;
Enter the number of processes: 4
Enter the arrival and burst times for each process:
0 5
13
2 4
3 2
Enter the time quantum: 2
Process Waiting Time Turnaround Time
1 0
2 3 6
3 4 6
4 5 7
```

b. Round Robin 2