Task 8: Write a program to find the finish time, turnaround time, and waiting time using FCFS Algorithm (input Takes by user).

Here's a basic example of a FCFS scheduling algorithm in C:

```
#include <stdio.h>
void findWaitingTime(int n, int bt[], int wt[], int at[]) {
  wt[0] = 0;
  for (int i = 1; i < n; i++) {
     wt[i] = bt[i - 1] + wt[i - 1] - at[i];
     if (wt[i] < 0) {
       wt[i] = 0;
     }
  }
}
void findTurnAroundTime(int n, int bt[], int wt[], int tat[]) {
  for (int i = 0; i < n; i++) {
     tat[i] = bt[i] + wt[i];
  }
}
void findFinishTime(int n, int at[], int bt[], int ft[]) {
  ft[0] = at[0] + bt[0];
  for (int i = 1; i < n; i++) {
     if (at[i] > ft[i - 1]) {
       ft[i] = at[i] + bt[i];
     } else {
       ft[i] = ft[i - 1] + bt[i];
     }
```

```
}
}
int main() {
  int n;
  printf("Enter the number of processes: ");
  scanf("%d", &n);
  int burst_time[n], arrival_time[n], waiting_time[n], turnaround_time[n], finish_time[n];
  printf("Enter the burst time and arrival time for each process:\n");
  for (int i = 0; i < n; i++) {
    printf("Process %d: ", i + 1);
    scanf("%d %d", &burst_time[i], &arrival_time[i]);
  }
  findWaitingTime(n, burst_time, waiting_time, arrival_time);
  findTurnAroundTime(n, burst_time, waiting_time, turnaround_time);
  findFinishTime(n, arrival_time, burst_time, finish_time);
  printf("Process\tBurst Time\tArrival Time\tFinish Time\tTurnaround Time\tWaiting Time\n");
  for (int i = 0; i < n; i++) {
    printf("%d\t%d\t\t%d\t\t%d\t\t%d\n", i + 1, burst\_time[i], arrival\_time[i], finish\_time[i],
turnaround_time[i], waiting_time[i]);
  }
  return 0;
}
//fcfs
Output-
```

Enter the number of processes: 3						
Enter the burst time and arrival time for each process:						
Process	rocess 1: 4 0					
Process 2: 3 1						
Process	3: 5 2					
Process	Burst Time	Arrival Time	Finish Time	Turnaround Time Waiting	Time	
1	4	0	4	4	0	
2	3	1	7	6	3	
3	5	2	12	9	4	