C Program to Implement FCFS:

```
#include<stdio.h>
int main(){
       int bt[10]={0},at[10]={0},tat[10]={0},wt[10]={0},ct[10]={0};
       int n,sum=0;
       float totalTAT=0,totalWT=0;
       printf("Enter number of processes:");
       scanf("%d",&n);
       printf("Enter arrival time and burst time for each process:\n\n");
       for(int i=0;i<n;i++)
       {
              printf("Arrival time of process[%d] ",i+1);
              scanf("%d",&at[i]);
              printf("Burst time of process[%d]
                                                    ",i+1);
              scanf("%d",&bt[i]);
              printf("\n");
       }
              for(int j=0;j<n;j++)
                                            //calculate completion time of processes
       {
              sum+=bt[j];
              ct[j]+=sum;
       }
              for(int k=0;k<n;k++)
                                            //calculate turnaround time and waiting times
       {
```

```
tat[k]=ct[k]-at[k];
             totalTAT+=tat[k];
      }
             for(int k=0;k< n;k++)
      {
             wt[k]=tat[k]-bt[k];
             totalWT+=wt[k];
      }
      printf("\n\n");
      printf("P\tAT\tBT\tCT\tTat\tWT\t\n\n");
      for(int i=0;i<n;i++)
      {
        printf("P%d\t%d\t%d\t%d\t%d\t%d\t%d\t%d\t%i],tat[i],tat[i],wt[i]);
      }
      printf("\n\n Average Turnaround Time = %f\n", totalTAT/n);
      printf("Average WT = %f\n\n", totalWT/n);
      return 0;
}
Output:
Enter number of processes: 3
Enter arrival time and burst time for each process: 2 6
5 3
1 8
0 3
Arrival time of process[1] Burst time of process[1]
Arrival time of process[2] Burst time of process[2]
```

Arrival	time	of	process[3]	Burst	time	of	process[3]
Arrival	time	of	process[4]	Burst	time	of	process[4]
Arrival	time	of	process[5]	Burst	time	of	process[5]

P	AT	BT	CT	Tat	$\mathbb{T}\mathbb{W}$
P1	2	6	6	4	0
P2	5	3	9	4	1
Р3	1	8	17	16	8
P4	0	3	20	20	17
P5	4	4	24	20	16

Average Turnaround Time = 12.800000

Average WT = 8.000000