Aim: To write C program to implement FCFS CPU scheduling algorithm.

Code:

#include <stdio.h>

int main() {

int n, i;

printf("Enter number of processes: ");

scanf("%d", &n);

int pid[n], bt[n], wt[n], tat[n];

for (i = 0; i < n; i++) {

pid[i] = i + 1;

printf("Enter burst time for process %d: ", pid[i]);

scanf("%d", &bt[i]);

}

wt[0] = 0;

for (i = 1; i < n; i++) {

wt[i] = wt[i - 1] + bt[i - 1];

}

for (i = 0; i < n; i++) {

tat[i] = wt[i] + bt[i];

}

printf("\nProcess\tBT\tWT\tTAT\n");

for (i = 0; i < n; i++) {

printf("P%d\t%d\t%d\t%d\n", pid[i], bt[i], wt[i], tat[i]);

}

printf("\nGantt Chart:\n|");

for (i = 0; i < n; i++) {

printf(" P%d |", pid[i]);

}

printf("\n0");

for (i = 0; i < n; i++) {

printf("\t%d", wt[i] + bt[i]);

}

return 0;

}





