Ex. No.6a) FIRST COME FIRST SERVE

Program code:

```
#include <stdio.h>
int main() {
    int n, i;
    int bt[20], wt[20], tat[20];
    float avg_wt = 0, avg_tat = 0;

printf("Enter the number of processes: ");
    scanf("%d", %n);

printf("Enter the burst time for each process:\n");
    for (i = 0; i < n; i++) {
        printf("P[%d]: ", i + 1);
        scanf("%d", %bt[i]);
    }

// Waiting time for first process is 0

wt[0] = 0;

// Calculate waiting time for each process

for (i = 1; i < n; i++) {
        wt[i] = bt[i - 1] + wt[i - 1];
    }

// Calculate turnaround time for each process

for (i = 0; i < n; i++) {
        tat[i] = bt[i] + wt[i];
        avg_wt += wt[i];
        avg_wt += wt[i];
        avg_tat /= n;

// Display result

printf("\nProcess\tburst Time\tWaiting Time\tTurnaround Time\n");
    for (i = 0; i < n; i++) {
            printf("\nProcess\tburst Time\tWaiting Time\tTurnaround Time\n");
        for (i = 0; i < n; i++) {
            printf("\nProcess\tburst Time\tWaiting Time\tTurnaround Time\n");
        printf("\nAverage Waiting Time: %.2f", avg_wt);
        printf("\nAverage Waiting Time: %.2f\n", avg_tat);
        return 0;
}</pre>
```

Output:

```
Enter the number of processes: 3
Enter the burst time for each process:
P[1]: 5
P[2]: 3
2[3]: 8
Process Burst Time
                        Waiting Time
                                         Turnaround Time
P[1]
                        0
                                         5
P[2]
                                         8
P[3]
       8
                        8
                                         16
Average Waiting Time: 4.33
Average Turnaround Time: 9.67
```