main.c

Share Run

```c
#include <stdio.h>
int main() {
    int n, i, j, temp;
    printf("Enter number of processes: ");
    scanf("%d", &n);

    int bt[n], wt[n], tat[n], p[n];
    for (i = 0; i < n; i++) {
        printf("Enter Burst Time for P%d: ", i + 1);
        scanf("%d", &bt[i]); 4
        p[i] = i + 1;
    }
    for (i = 0; i < n - 1; i++) {
        for (j = 0; j < n - i - 1; j++) {
            if (bt[j] > bt[j + 1]) {
                temp = bt[j]; bt[j] = bt[j + 1]; bt[j + 1] = temp;
                temp = p[j]; p[j] = p[j + 1]; p[j + 1] = temp;
            }
        }
    }

    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("\nP\tBT\tWT\tTAT\n");
    for (i = 0; i < n; i++)
        printf("P%d\t%d\t%d\t%d\n", p[i], bt[i], wt[i], tat[i]);

    return 0;
}

```

Output Clear

```
Enter number of processes: 4
Enter Burst Time for P1: 2
Enter Burst Time for P2: 4
Enter Burst Time for P3: 5
Enter Burst Time for P4: 6

P   BT  WT  TAT
P1  2   0   2
P2  4   2   6
P3  5   6   11
P4  6   11  17


=== Code Execution Successful ===
```

main.c

Share Run

```c
#include <stdio.h>
int main() {
    int n, tq, i, bt[10], rem_bt[10], wt[10] = {0}, tat[10], time = 0, done = 0;
    printf("Enter number of processes and time quantum: ");
    scanf("%d %d", &n, &tq);
    for (i = 0; i < n; i++) {
        printf("Enter BT for P%d: ", i + 1);
        scanf("%d", &bt[i]);
        rem_bt[i] = bt[i];
    }

    while (done < n) {
        for (i = 0; i < n; i++) {
            if (rem_bt[i] > 0) {
                int t = (rem_bt[i] > tq) ? tq : rem_bt[i];
                time += t; rem_bt[i] -= t;
                if (rem_bt[i] == 0) { tat[i] = time; wt[i] = tat[i] - bt[i];
                    done++; }
            }
        }
    }

    printf("\nP\tBT\tWT\tTAT\n");
    for (i = 0; i < n; i++)
        printf("P%d\t%d\t%d\t%d\n", i + 1, bt[i], wt[i], tat[i]);
    return 0;
}
```

Output

Clear

```
Enter number of processes and time quantum: 3
2
Enter BT for P1: 3
Enter BT for P2: 2
Enter BT for P3: 5

P   BT  WT  TAT
P1  3   4   7
P2  2   2   4
P3  5   5   10


=== Code Execution Successful ===
```