

EXP 3

```
#include <stdio.h>

int main() {
    int n, i, j;
    int bt[10], pr[10], p[10];
    int wt[10], tat[10], temp;
    printf("Enter number of processes: ");
    scanf("%d", &n);
    for(i = 0; i < n; i++) {
        p[i] = i + 1;
        printf("Enter Burst Time and Priority for P%d: ", p[i]);
        scanf("%d %d", &bt[i], &pr[i]);
    }
    // Sort by Priority
    for(i = 0; i < n; i++) {
        for(j = i + 1; j < n; j++) {
            if(pr[i] > pr[j]) {
                temp = pr[i]; pr[i] = pr[j]; pr[j] = temp;
                temp = bt[i]; bt[i] = bt[j]; bt[j] = temp;
                temp = p[i]; p[i] = p[j]; p[j] = 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("\nProcess\tBT\tPriority\tWT\tTAT\n");
}
```

```

for(i = 0; i < n; i++)
    printf("P%d\t%d\t%d\t%d\t%d\n", p[i], bt[i], pr[i], wt[i], tat[i]);
return 0;
}

```

```

~/LAB$ gcc -o exp3 exp3.c
~/LAB$ ./exp3
Enter number of processes: 3
Enter Burst Time and Priority for P1: 4
5
Enter Burst Time and Priority for P2: 3
4
Enter Burst Time and Priority for P3: 5
3

Process BT Priority WT TAT
P2 3 4 0 3
P1 4 5 3 7
P3 5 8 7 12

```