

EXERCISE THREE

```
#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\t%d\t\t%d\n", p[i], bt[i], pr[i], wt[i], tat[i]);  
return 0;  
}
```