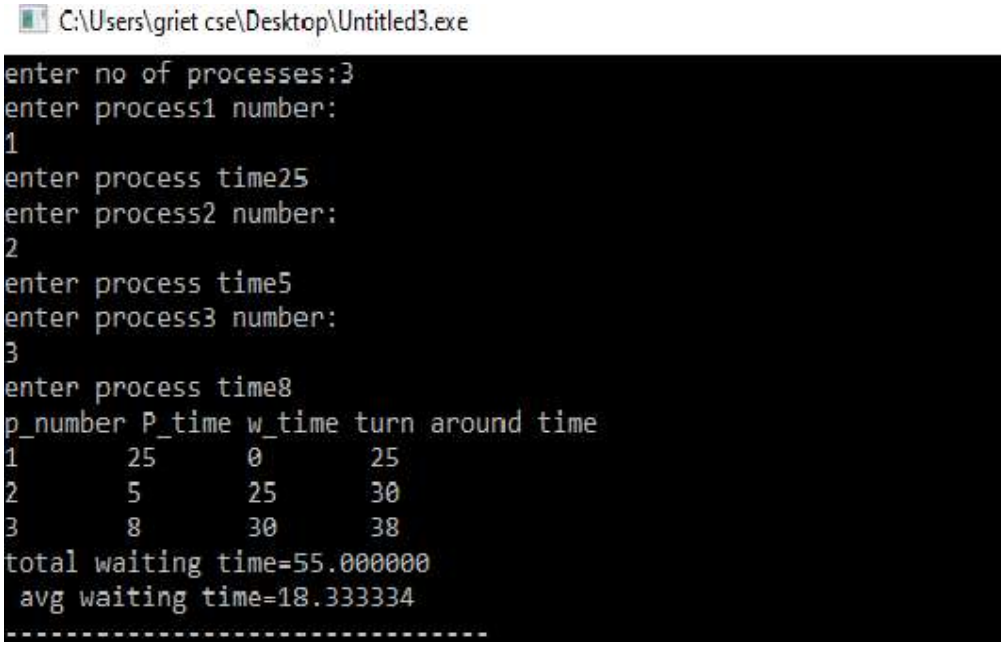
Task 3

Task 3a: Simulate the FCFS Scheduling algorithms using C program

Program:

```
#include<stdio.h>
main()
{
int p[10];
int tat[10],wt[10],i,n,pt[10],bt[10];
float avg=0,tot=0;
printf("enter no of processes:");
scanf("%d",&n);
for(i=0;i<n;i++)
{
printf("enter process%d number:\n",i+1);
scanf("%d",&p[i]);
printf("enter process time");
scanf("%d",&pt[i]);
}
wt[0]=0;
for(i=1;i<n;i++)
{
wt[i]=pt[i-1]+wt[i-1];
tot=tot+wt[i];
}
avg=(float)tot/n;
for(i=0;i<n;i++)
tat[i]=pt[i]+wt[i];
printf("p_number\t P_time\t w_time\t turn around time\n");
for(i=0;i<n;i++)
printf("%d\t%d\t%d\t%d\n",p[i],pt[i],wt[i],tat[i]);
printf("total waiting time=%f\n avg waiting time=%f",tot,avg);
}
```

Output:


C:\Users\griet cse\Desktop\Untitled3.exe
enter no of processes:3
enter process1 number:
1
enter process time25
enter process2 number:
2
enter process time5
enter process3 number:
3
enter process time8
p_number P_time w_time turn around time
1 25 0 25
2 5 25 30
3 8 30 38
total waiting time=55.000000
avg waiting time=18.333334
