EX NO: 4C	PRIORITY – SCHEDULING ALGORITHM
DATE:	

AIM:

To write a 'C' program to perform priority scheduling.

ALGORITHM:

- 1. Start the program.
- 2. Read burst time, waiting time, turn the around time and priority.
- 3. Initialize the waiting time for process 1 and 0.
- 4. Based up on the priority process are arranged
- 5. The waiting time of all the processes is summed and then the average waiting time
- 6. The waiting time of each process and average waiting time are displayed based on the priority.
- 7. Stop the program.

```
pid[i]=pid[j];
pid[j]=t;
} } tat[0]=bt[0];
wt[0]=0;
for(i=1;i<n;i++
)
{
    wt[i]=wt[i-1]+bt[i-1]; tat[i]=wt[i]+bt[i];
}
printf("\n ------\\n");
printf("Pid \t Priority \t Burst time \t WaitingTime \tTurnAroundTime \\n");
printf("\n -----\\n");
for(i=0;i<n;i++)
{</pre>
```

```
printf("\n %d \t\t %d \t\t %d \t\t %d \t\t %d",pid[i],pr[i],bt[i],bt[i],wt[i],ta
t[i]);
}
for(i=0;i<n;i++)
{
    ttat=ttat+tat[i];
    twt=twt+wt[i];
}
awt=(float)twt/n;
atat=(float)ttat/n;
printf("\n\n Avg.Waiting Time: %f\n Avg.Turn Around Time: %f\n",awt,atat);
}</pre>
```

OUTPUT:

8	mohamedinam@Moha	med-Ir	nam-PC:	~	
	edinam@Mohamed-Inam-P edinam@Mohamed-Inam-P				ity
Enter	the number of proces	s: 4			
Enter the Burst time of Pid 0: 2 Enter the Priority of Pid 0: 3					
Enter the Burst time of Pid 1: 6 Enter the Priority of Pid 1: 2					
Enter the Burst time of Pid 2: 4 Enter the Priority of Pid 2: 1					
	the Burst time of Pi the Priority of Pid		5		
		:			
Pld	Priority B	urst	time	WaitingTime	TurnAroundTime
2	1		4	0	4
1	1 2 0 3		6	4	10
0	3		2	10	12
3	7		5	12	17
Avg.	Waiting Time: 6.50000 Turn Around Time: 10. edinam@Mohamed-Inam-P	75000			

RESULT:

Thus the priority scheduling program was executed and verified successfully

