**3. Write a program to compute the average waiting time and average turnaround time based on Non Preemptive Shortest-Job-First Scheduling for the following process with the given CPU burst times, ( and the assumption that all jobs arrive at the same time.)**

**Process Burst Time**

**P1 6**

**P2 8**

**P3 7**

**P4 3**

**Program:**

#include<stdio.h>

int main()

{

int i,j,n,temp,l=0,s=0;

printf("enter the number of process : ");

scanf("%d",&n);

int f[n],h[n],sum[n],p[n];

printf("enter the burst time : ");

for(i=0;i<n;i++){

scanf("%d",&p[i]);

}

for(i=0;i<n;i++){

f[i]=p[i];

}

for(i=0;i<n;i++){

for(j=i+1;j<n;j++){

if(p[i]>p[j]){

temp=p[i];

p[i]=p[j];

p[j]=temp;

}

}

}

for(i=0;i<n;i++){

for(j=0;j<n;j++){

if(p[i]==f[j]){

h[l]=j;

printf("%d",h[l]);

l=l+1;

}

}

}

for(i=1;i<n;i++){

sum[i]=s+f[h[i-1]];

s=sum[i];

}

s=0;

for(i=0;i<n;i++){

s=s+sum[i];

}

printf("Average waiting time : %d\n",s/n);

s=0;

for(i=0;i<n;i++){

s=s+sum[i]+f[i];

}

printf("average turn around time : %d",s/n);

}

**Output :**

