**SJF nonpreemptive:-**

#include<iostream>

#include<conio.h>

using namespace std;

int main()

{

 int a[20],b[20],j,small,sum=0,sum2=0,w=0,e=0,p=0;

 cout<<"ENTER THE NUMBER OF PROCESSES =";

 cin>>j;

 for(int i=1;i<=j;i++)

 {

 cout<<"P"<<i<<" = ";

 cin>>a[i];

 b[i]=i;

 }

 for(int i=1;i<=j;i++)

 {

 for(int k=(i+1);k<=j;k++)

 {

 if(a[k]<a[i])

 {

 int t = a[k]; int tt = b[k];

 a[k] = a[i]; b[k] = b[i];

 a[i] = t; b[i] = tt;

 }

 }

 }

 cout<<"Waiting time for \n\n";

 for(int i=1;i<=j;i++)

 {

 cout<<"p"<<b[i]<<" = "<<sum<<"\n";

 w=w+sum;

 sum=sum+a[i];

 }

 cout<<"Average waiting time = "<<(w/j);

 cout<<"\nTurnaround time for \n\n";

 for(int i=1;i<=j;i++)

 {

 sum2=sum2+a[i];

 cout<<"p"<<b[i]<<" = "<<sum2<<"\n";

 e=e+sum2;

 }

 cout<<"Average turnaround time ="<<(e/j);

 getch ();

 return 0;

}

**OUTPUT:-**

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