**FCFS**

**Fcfs.java**

**package** fcfs;

**import** java.util.\*;

**public** **class** fcfs {

**public** **static** **void** main(String[]args)

{

Scanner sc=**new** Scanner(System.***in***);

System.***out***.println("Enter the number of processes :");

**int** n= sc.nextInt();

**int** pid[]=**new** **int**[n];

**int** at[]=**new** **int**[n];

**int** bt[]=**new** **int**[n];

**int** ct[]=**new** **int**[n];

**int** tat[]=**new** **int**[n];

**int** wt[]=**new** **int**[n];

**for**(**int** i=0;i<n;i++)

{

System.***out***.println("Enter the process id");

pid[i]=sc.nextInt();

System.***out***.println("Enter the arrival time");

at[i]=sc.nextInt();

System.***out***.println("Enter the bus time");

bt[i]=sc.nextInt();

}

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

**for** (**int** j=0;j<n-1;j++) {

**if** (at[j]>at[j+1]) {

**int** temp=at[j];

at[j]=at[j+1];

at[j+1]=temp;

**int** btemp=bt[j];

bt[j]=bt[j+1];

bt[j+1]=btemp;

**int** ptemp=pid[j];

pid[j]=pid[j+1];

pid[j+1]=ptemp;

}

}

}

**for**(**int** i=0;i<n;i++)

{

**if**(i==0)

{

ct[i]=bt[i]+at[i];

}

**else**

{

**if**(at[i]>ct[i-1])

{

ct[i]=bt[i]+at[i];

}

**else**

{

ct[i]=ct[i-1]+bt[i];

}

}

}

**for** (**int** i=0;i<n;i++)

{

tat[i]=ct[i]-at[i];

wt[i]=tat[i]-bt[i];

}

System.***out***.println("Process ID\tArrival Time\tBus Time\tCompletion Time\tTurnaround Time\tWait Time");

**for** (**int** i=0;i<n;i++)

{

System.***out***.println(pid[i] + "\t\t" + at[i] + "\t\t" + bt[i] + "\t\t" + ct[i] + "\t\t" + tat[i] + "\t\t" + wt[i]);

}

}

}

**OUTPUT:-**

