**Priority**

**priority.java**

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

**public** **class** priority {

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

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

System.***out***.println("Enter no. of process : ");

**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];

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

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

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

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

{

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

pid[i] = sc.nextInt();

System.***out***.println("Enter Arrival time: ");

at[i] = sc.nextInt();

System.***out***.println("Enter Burst time: ");

bt[i] = sc.nextInt();

btt[i] = bt[i];

System.***out***.println("Enter priority time: ");

prio[i] = sc.nextInt();

f[i] = 0;

}

sc.close();

**int** st = 0;

**int** total = 0;

**int** i = 0;

**while**(**true**)

{

**if**(total == n)

**break**;

**int** c = n;

**int** min = 99;

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

{

**if**(at[i] <= st && f[i] == 0 && prio[i] < min)

{

c = i;

min = prio[i];

}

}

**if**(c == n)

{

st += 1;

}

**else**

{

ct[c] = st + bt[c];

f[c] = 1;

st = ct[c];

total++;

}

}

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

{

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

wt[k] = tat[k] - btt[k];

}

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

{

System.***out***.println(pid[j]+"\t"+at[j]+"\t"+btt[j]+"\t"+ prio[j]+"\t"+ct[j]+"\t"+tat[j]+"\t"+wt[j]);

}

}

}

**OUTPUT:-**

