File   Edit   Search   View   Project   Execute   Tools   AStyle   Window   Help

(globals)

TDM-GCC 4.9.2 64-bit Release

Project   Classes   Debug   kousa.cpp

```c
1    #include<stdio.h>
2    #include<conio.h>
3
4    int main()
5    {
6        // initlialize the variable name
7        int i, NOP, sum=0,count=0, y, quant, wt=0, tat=0, at[10], bt[10], temp[10];
8        float avg_wt, avg_tat;
9        printf(" Total number of process in the system: ");
10       scanf("%d", &NOP);
11       y = NOP; // Assign the number of process to variable y
12
13    // Use for loop to enter the details of the process like Arrival time and the Burst Time
14    for(i=0; i<NOP; i++)
15    {
16    printf("\n Enter the Arrival and Burst time of the Process[%d]\n", i+1);
```

Compiler (2)   Resources   Compile Log   Debug   Find Results   Close

Line	Col	File	Message
		C:\Program Files (x86)\Dev-Cpp\MinGW64\x86_64-w64-...	cannot open output file C:\Users\Dinesh\Documents\kousa.exe: Permission denied
		C:\Users\Dinesh\Documents\collect2.exe	[Error] ld returned 1 exit status

Activate Windows
Go to Settings to activate Windows.

Line: 68   Col: 4   Sel: 0   Lines: 68   Length: 2059   Insert   Done parsing in 0.047 seconds

```
16   printf("\n Enter the Arrival and Burst time of the Process[%d]\n", i+1);
17   printf(" Arrival time is: \t");   // Accept arrival time
18   scanf("%d", &at[i]);
19   printf(" \nBurst time is: \t"); // Accept the Burst time
20   scanf("%d", &bt[i]);
21   temp[i] = bt[i]; // store the burst time in temp array
22   }
23   // Accept the Time qunat
24   printf("Enter the Time Quantum for the process: \t");
25   scanf("%d", &quant);
26   // Display the process No, burst time, Turn Around Time and the waiting time
27   printf("\n Process No \t\t Burst Time \t\t TAT \t\t Waiting Time ");
28   for(sum=0, i = 0; y!=0; )
29   {
30   if(temp[i] <= quant && temp[i] > 0) // define the conditions
31   { |
```

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(globals)

es Debug   kousa.cpp

```cpp
30    if(temp[i] <= quant && temp[i] > 0) // define the conditions
31    {
32        sum = sum + temp[i];
33        temp[i] = 0;
34        count=1;
35    }
36    else if(temp[i] > 0)
37    {
38        temp[i] = temp[i] - quant;
39        sum = sum + quant;
40    }
41    if(temp[i]==0 && count==1)
42    {
43        y--; //decrement the process no.
44        printf("\nProcess No[%d] \t\t %d\t\t\t\t %d\t\t\t %d", i+1, bt[i], sum-at[i], sum-at[i]-bt[i])
45        wt = wt+sum-at[i]-bt[i];
```

2) Resources   Compile Log   Debug   Find Results   Close

File   Message
C:\Program Files (x86)\Dev-Cpp\MinGW64\x86_64-w64-...   cannot open output file C:\Users\Dinesh\Documents\kousa.exe: Permission denied
C:\Users\Dinesh\Documents\collect2.exe   [Error] ld returned 1 exit status

TDM-GCC 4.9.2 64-bit Release

(globals)

Debug   kousa.cpp

```
44          printf("\nProcess No[%d] \t\t %d\t\t\t\t %d\t\t\t %d", i+1, bt[i], sum-at[i], sum-at[i]-bt[i])
45          wt = wt+sum-at[i]-bt[i];
46          tat = tat+sum-at[i];
47          count =0;
48      }
49      if(i==NOP-1)
50      {
51          i=0;
52      }
53      else if(at[i+1]<=sum)
54      {
55          i++;
56      }
57      else
58      {
59          i=0;
```

Resources   Compile Log   Debug   Find Results   Close

Message

Program Files (x86)\Dev-Cpp\MinGW64\x86_64-w64-...   cannot open output file C:\Users\Dinesh\Documents\kousa.exe: Permission denied
Users\Dinesh\Documents\collect2.exe   [Error] ld returned 1 exit status

(globals)

TDM-GCC 4.9.2 64-bit Release

s   Debug   kousa.cpp

```
53          else if(at[i+1]<=sum)
54          {
55              i++;
56          }
57          else
58          {
59              i=0;
60          }
61      }
62      // represents the average waiting time and Turn Around time
63      avg_wt = wt * 1.0/NOP;
64      avg_tat = tat * 1.0/NOP;
65      printf("\n Average Turn Around Time: \t%f", avg_wt);
66      printf("\n Average Waiting Time: \t%f", avg_tat);
67      getch();
68      }
```

Resources   Compile Log   Debug   Find Results   Close

Message

Program Files (x86)\Dev-Cpp\MinGW64\x86_64-w64-...   cannot open output file C:\Users\Dinesh\Documents\kousa.exe: Permission denied
Jsers\Dinesh\Documents\collect2.exe   [Error] ld returned 1 exit status

```
Total number of process in the system: 4

Enter the Arrival and Burst time of the Process[1]
Arrival time is:      0

Burst time is:  8

Enter the Arrival and Burst time of the Process[2]
Arrival time is:      1

Burst time is:  5

Enter the Arrival and Burst time of the Process[3]
Arrival time is:      2

Burst time is:  10

Enter the Arrival and Burst time of the Process[4]
Arrival time is:      3

Burst time is:  11
Enter the Time Quantum for the process:          6

 Process No               Burst Time            TAT              Waiting Time
Process No[2]             5                     10                       5
Process No[1]             8                     25                       17
Process No[3]             10                    27                       17
Process No[4]             11                    31                       20
 Average Turn Around Time:      14.750000
 Average Waiting Time:  23.250000
```