Step 6 :- Consider the ready queue is sorted on the basis of arrival time, calculate

a) waiting time for process (n) = waiting time of process (n-1) + burst time of process (n-1) + the time difference in getting the CPU from process (n).

Step 7 : Calculate

b) Average waiting time = Total waiting time / Number of process

c) Average Turnaround Time = Total waiting time / Number of process

d) Average Turnaround time = Total Turnaround Time / Number of process

Step 8 :- Stop the process

Source code

```
#include <stdio.h>

main()
{
int
i, j, n, bu[10], wa[10], tat[10], t, c
float
```

```
wt = 0, at = 0, temp = 0;
clrscr();
printf("Enter the no of processes --");
scanf("%d", &n);
for(i=0; i<n; i++)
{
printf("Enter burst time for process %d", i+1);
scanf("%d", &bu[i]);
ct[i] = bu[i];
}
printf("Enter the size of time slice\n");
scanf("%d", &t);
max = bu[0];
for(i=1; i<n; i++)
if(max < bu[i])
max = bu[i];
for(j=0; j<(max/t)+1; j++)
for(i=0; i<n; i++)
if(bu[i]!=0)
if(bu[i]<=t)
tat[i] = temp + bu[i];
temp = temp + bu[i];
bu[i] = 0;
}
else
{
```

```
bu[i] = bu[i] - t;
temp = temp + t;
}
for (i = 0; i < n; i++)
{
wa[i] = tat[i] - ct[i];
att += tat[i];
awt += wa[i];
}
printf("The average turnaround time is %of\n", att/n);
printf("The average waiting time is %of", awt/n);
printf("\n\t Process \t Burst Time \t waiting time \t
Turn around time \n");
for(i = 0; i < n; i++)
printf("\t %d \t %d \t\t %d \t\t %d \n",
i+1, ct[i], wa[i], tat[i]); getch();}
```

Input

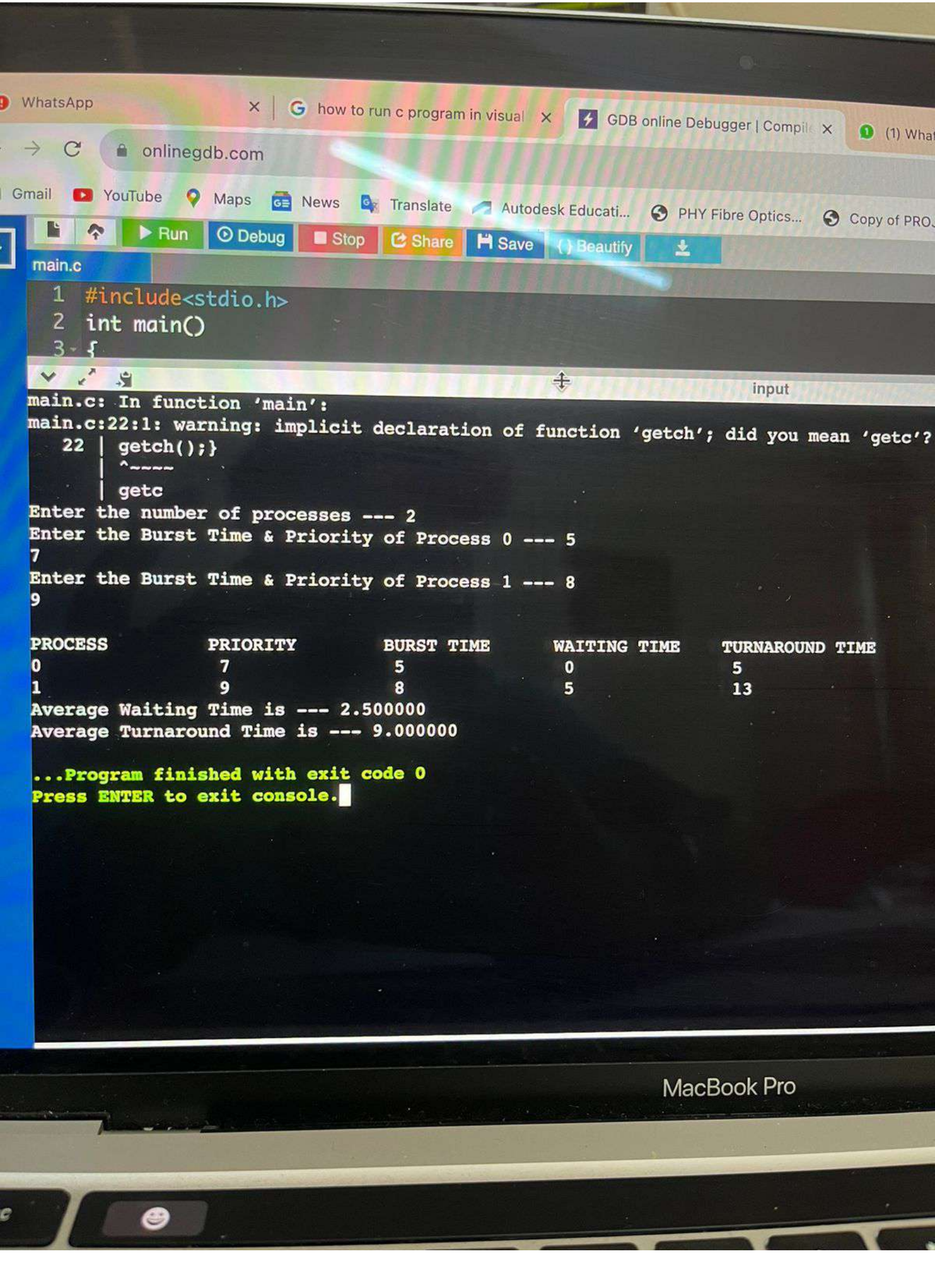
Enter no of Processes -3
Enter Burst time for Process 1 - 24
Enter Burst time for process 2 - 3
Enter Burst time for process 3 - 3
Enter Size of Time Slice - 3

Output

| process | Burst Time | waiting time | Turnaround Time |
|---|---|---|---|
| 1 | 24 | 6 | 30 |
| 2 | 3 | 4 | 7 |
| 3 | 3 | 7 | 10 |

The average Turnaround time is 15.666667
The average waiting time is 5.666667

Chart ?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Beautify
main.c
1 #include<stdio.h>
2 int main()
3 {
input
main.c: In function 'main':
main.c:22:1: warning: implicit declaration of function 'getch'; did you mean 'getc'?
22 | getch();}
| ^~~~~
| getc
Enter the number of processes --- 2
Enter the Burst Time & Priority of Process 0 --- 5
7
Enter the Burst Time & Priority of Process 1 --- 8
9
PROCESS PRIORITY BURST TIME WAITING TIME TURNAROUND TIME
0 7 5 0 5
1 9 8 5 13
Average Waiting Time is --- 2.500000
Average Turnaround Time is --- 9.000000
...Program finished with exit code 0
Press ENTER to exit console.
MacBook Pro