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Course - Bsc It
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Subject - Operating system

Write a c program to implement FCFS scheduling Algorithm.

Code

```
# include <stdio.h>
int waitingtime (int proc[], int n,
int burst_time [], int wait_time[]){
 wait_time [0] = 0;
for (int i = 1 ; i<n ; i++)
wait_time [i] = burst_time [i-1] + wait_time [i-1];
 return 0;
 }
int turnaroundtime (int proc [], int n,
int burst_time [], int wait_time [], int tat [])
{ int i;
 for (i= 0; i<n ;i++)
 tat[i] = burst_time [i] + wait_time [i];
 return 0;
 }
```

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```
int avgtime (int proc[], int n, int burst_time []) {
 int wait_time [n], tat [n], total_wt = 0, total_tat = 0 ;
int i ;
Waitingtime (proc, n,
burst_time, wait_time );
Turnaroundtime (proc, n ,
burst_time , wait_time, tat );
printf ("Processes Burst Waiting Turnaround \n");
for (i=0 ; i<n; i++) {
total_wt = total_wt + wait_time[i];
total_tat = total_tat + tat[i];
printf ("%d \t %d \t\t %d \t %d \n", i+1, burst_time[i];
wait_time [i] , tat [i] );
}
printf ("Average waiting time = %f \n" },
(float) total_wt /(float) n) ;
printf ("Average turnaround time = %f \n", (float)
total_tat / (float) n) ; return
0;
}
int main () {
int proc [] = {0, 1, 2, 3};
int n = size of proc / size of proc [0];
```

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```
int burst_time [] = {6, 8, 10, 12};
avg_time (proc, n, burst_time);
return 0;
```

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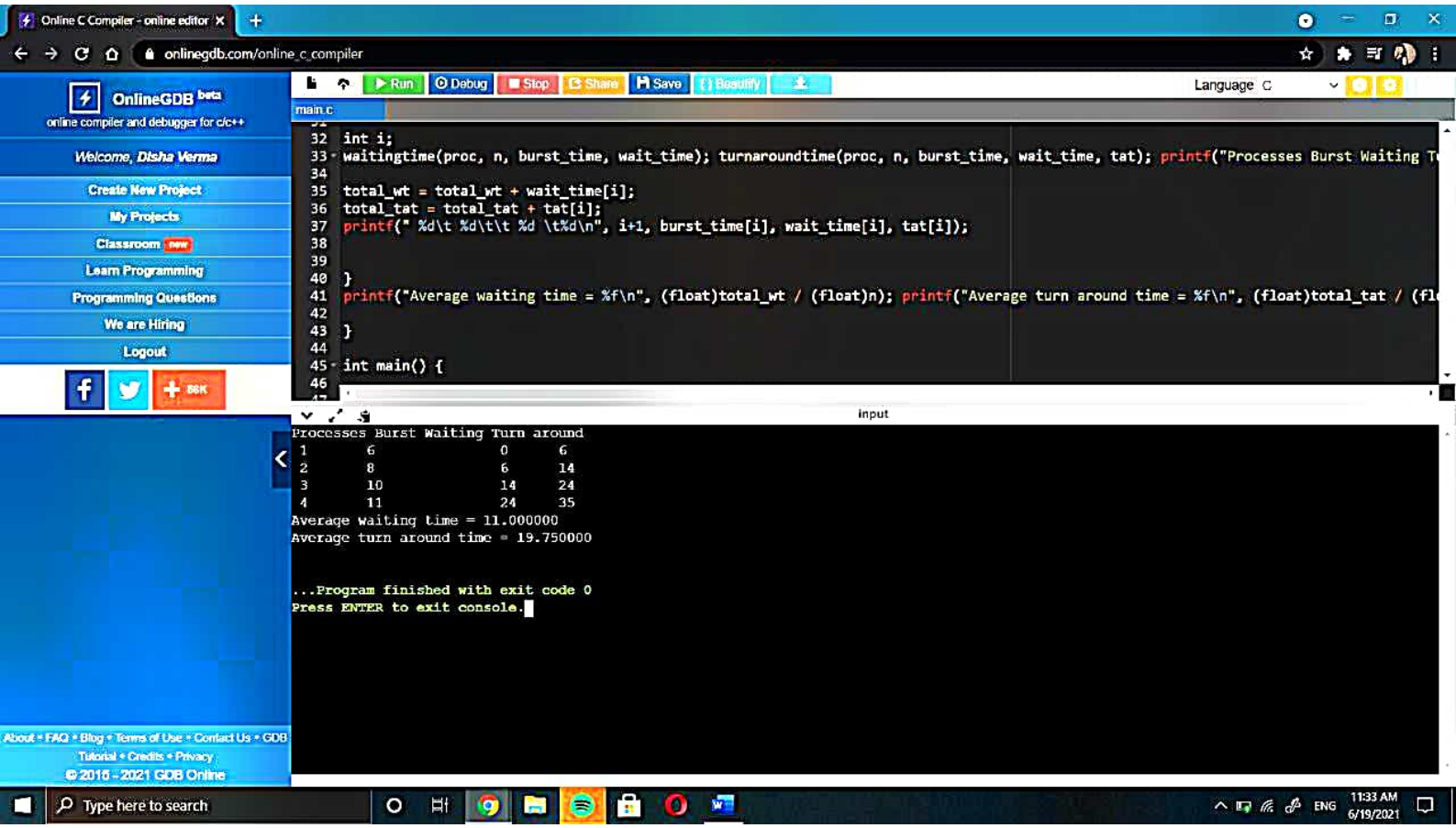
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Save
{ } Beautify
Language C
main.c
int i;
waitingtime(proc, n, burst_time, wait_time); turnaroundtime(proc, n, burst_time, wait_time, tat); printf("Processes Burst Waiting T
total_wt = total_wt + wait_time[i];
total_tat = total_tat + tat[i];
printf(" %d\t %d\t\t %d \t%d\n", i+1, burst_time[i], wait_time[i], tat[i]);
}
printf("Average waiting time = %f\n", (float)total_wt / (float)n); printf("Average turn around time = %f\n", (float)total_tat / (fl
}
int main() {
input
Processes Burst Waiting Turn around
1 6 0 6
2 8 6 14
3 10 14 24
4 11 24 35
Average waiting time = 11.000000
Average turn around time = 19.750000
...Program finished with exit code 0
Press ENTER to exit console.
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