**Week 2**

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**Q**. FCFS using C programming language

**INPUT :**

#include <stdio.h>

struct process{

int B\_time;

int arr\_time;

int turnAround\_time;

int waiting\_time;

};

typedef struct process procs;

int main(){

int n;

printf("enter the number of the processes\n");

scanf("%d",&n);

procs processes[n];

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

printf("enter the burst time for process:%d\n",i+1);

scanf("%d",&processes[i].B\_time);

printf("enter the arrival time for process:%d\n",i+1);

scanf("%d",&processes[i].arr\_time);

}

int comp\_time=0;

int avg\_tat=0;

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

comp\_time+=processes[i].B\_time;

processes[i].turnAround\_time=comp\_time-processes[i].arr\_time;

avg\_tat+=processes[i].turnAround\_time;

}

printf("printing turn around time\n");

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

printf("the Turn Around time for process:%d is %d\n",i+1,processes[i].turnAround\_time);

}

printf("avg turn around time of all the processes is %d\n",avg\_tat/n);

int avg\_wait=0;

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

processes[i].waiting\_time=processes[i].turnAround\_time-processes[i].B\_time;

avg\_wait+=processes[i].waiting\_time;

}

printf("\n printing waiting time\n");

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

printf("the Waiting time for process:%d is %d\n",i+1,processes[i].waiting\_time);

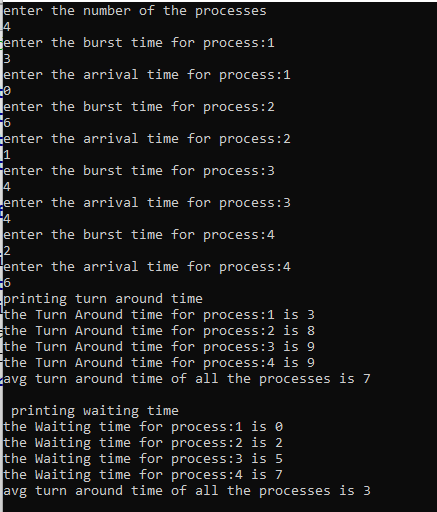
}

printf("avg turn around time of all the processes is %d\n",avg\_wait/n);

return 0;

}

**Output :**

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