FCFS SHEDULING:

// C program for implementation of FCFS

// scheduling

#include<stdio.h>

// Function to find the waiting time for all

// processes

void findWaitingTime(int processes[], int n,

int bt[], int wt[])

{

// waiting time for first process is 0

wt[0] = 0;

// calculating waiting time

for (int i = 1; i < n ; i++ )

wt[i] = bt[i-1] + wt[i-1] ;

}

// Function to calculate turn around time

void findTurnAroundTime( int processes[], int n,

int bt[], int wt[], int tat[])

{

// calculating turnaround time by adding

// bt[i] + wt[i]

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

tat[i] = bt[i] + wt[i];

}

//Function to calculate average time

void findavgTime( int processes[], int n, int bt[])

{

int wt[n], tat[n], total\_wt = 0, total\_tat = 0;

//Function to find waiting time of all processes

findWaitingTime(processes, n, bt, wt);

//Function to find turn around time for all processes

findTurnAroundTime(processes, n, bt, wt, tat);

//Display processes along with all details

printf("Processes Burst time Waiting time Turn around time\n");

// Calculate total waiting time and total turn

// around time

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

{

total\_wt = total\_wt + wt[i];

total\_tat = total\_tat + tat[i];

printf(" %d ",(i+1));

printf(" %d ", bt[i] );

printf(" %d",wt[i] );

printf(" %d\n",tat[i] );

}

int s=(float)total\_wt / (float)n;

int t=(float)total\_tat / (float)n;

printf("Average waiting time = %d",s);

printf("\n");

printf("Average turn around time = %d ",t);

}

// Driver code

int main()

{

//process id's

int processes[] = { 1, 2, 3};

int n = sizeof processes / sizeof processes[0];

//Burst time of all processes

int burst\_time[] = {10, 5, 8};

findavgTime(processes, n, burst\_time);

return 0;

}

OUTPUT:

Processes Burst time Waiting time Turn around time //The Output is Wrong please correct it

1 10 0 10

2 5 10 15

3 8 15 23

Average waiting time = 8.33333

Average turn around time = 16