Name: Sneha Tiwari

Roll: 11500119052 | Group: B1

Assignment 11

**1. W.A.P to implement First Come First Serve scheduling algorithm in operating system.**

**Solution:**

**C Program**

#include<stdio.h>

int main()

{

int AT[10],BT[10],WT[10],TT[10],n;

int burst=0,cmpl\_T;

float Avg\_WT,Avg\_TT,Total=0;

printf("First - Come - First - Serve\n\n");

printf("Enter number of the process: ");

scanf("%d",&n);

printf("\nEnter Arrival time and Burst time of the process:\n");

printf("AT BT\n");

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

{

scanf("%d%d",&AT[i],&BT[i]);

}

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

{

if(i==0)

WT[i]=AT[i];

else

WT[i]=burst-AT[i];

burst+=BT[i];

Total+=WT[i];

}

Avg\_WT=Total/n;

cmpl\_T=0;

Total=0;

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

{

cmpl\_T+=BT[i];

TT[i]=cmpl\_T-AT[i];

Total+=TT[i];

}

Avg\_TT=Total/n;

printf("\nProcess WaitingTime TurnAroundTime\n");

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

{

printf("%d\t\t%d\t\t%d\n",i+1,WT[i],TT[i]);

}

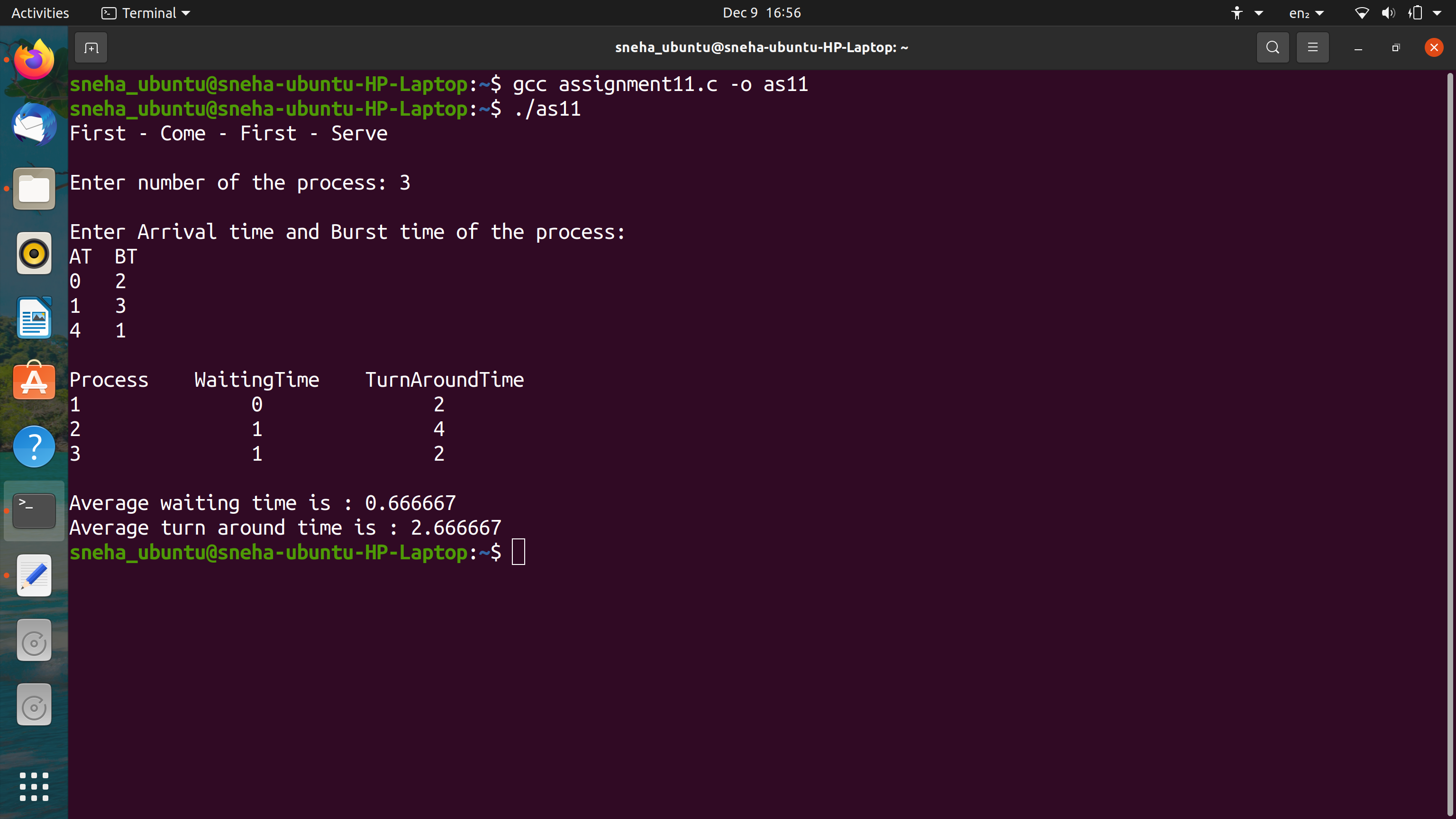
printf("\nAverage waiting time is : %f\n",Avg\_WT);

printf("Average turn around time is : %f\n",Avg\_TT);

return 0;

}

**Output**

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