NAME: Hariprasad K K

REG NO: 19BCE7079

COURSE: Operating Systems

DATE: 09-11-2021

CODE:

FILE7.C

```
#include<stdio.h>
int main()
   int bt[20],p[20],wt[20],tat[20],i,j,n,total=0,pos,temp;
   float avg wt, avg tat;
printf("Enter the number of process :");
scanf("%d",&n);
for(i=0;i<n;i++)
printf("p%d:",i+1);
scanf("%d", &bt[i]);
p[i]=i+1;
for(i=0;i<n;i++)
  pos=i;
  for(j=i+1;j<n;j++)
    if(bt[j]<bt[pos])</pre>
      pos=j;
temp=bt[i];
bt[i]=bt[pos];
bt[pos]=temp;
temp=p[i];
p[i]=p[pos];
p[pos] = temp;
wt[0]=0;
for (i=0;i<n;i++);
wt[i]=0;
for(j=0;j<i;j++)
```

```
wt[i]+=bt[j];
total+=wt[i];
}
avg_wt=(float)total/n;
total=0;
printf("\nProcess\t Burst Time\tWaiting Time \t Turnaround Time");
for(i=0;i<n;i++)
{
tat[i]=bt[i]+wt[i];
total+=tat[i];
printf("\np%d\t\t %d\t\t %d\t\t\t%d", p[i],bt[i],wt[i],tat[i]);
}
avg_tat=(float)total/n;
printf("\n\nAverage Waiting Time=%f",avg_wt);
printf("\nAverage Turnaround Time=%f\n",avg_tat);
}</pre>
```

FIL8.C

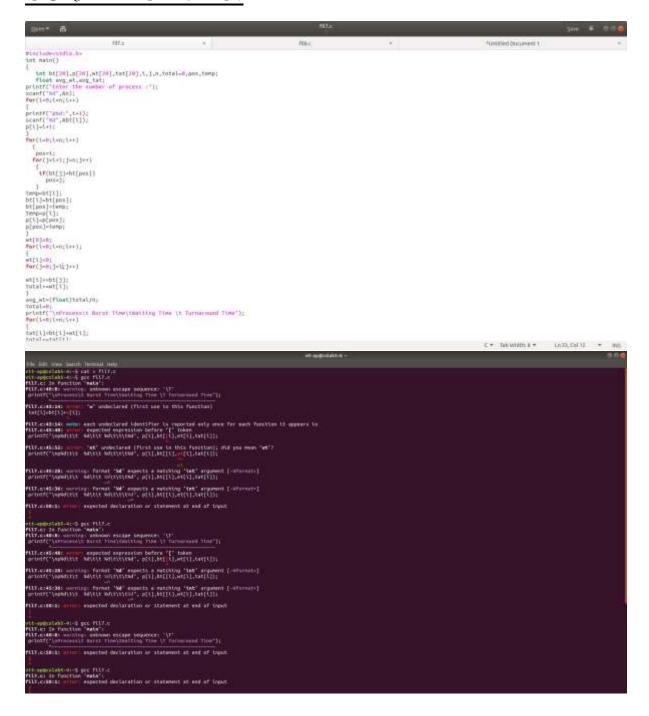
```
#include<stdio.h>
void main()
int i,j,n,bt[10],p[10],compt[1],wt[10],tat[10],temp1,temp2;
float sumwt=0.0, sumtat=0.0, avgwt, avgtat;
printf("Enter the number of processes : ");
scanf("%d",&n);
printf("Enter the burst time of %d process\n",n);
for(i=0;i<n;i++)
scanf("%d", &bt[i]);
printf("Enter the priority of %d process\n",n);
for(i=0;i<n;i++)
scanf("%d",&p[i]);
for(i=0;i<n;i++)
for(j=i+1;j<n;j++)
if(p[i]>p[j])
{
temp1=bt[i];
bt[i]=bt[j];
bt[j]=temp1;
temp2=p[i];
p[i]=p[j];
p[j] = temp2;
compt[0]=bt[0];
wt[0]=0;
for(i=1;i<n;i++)
compt[i]=bt[i]+compt[i-1];
for(i=0;i<n;i++)
tat[i]=compt[i];
wt[i]=tat[i]-bt[i];
sumtat+=tat[i];
sumwt+=wt[i];
}
```

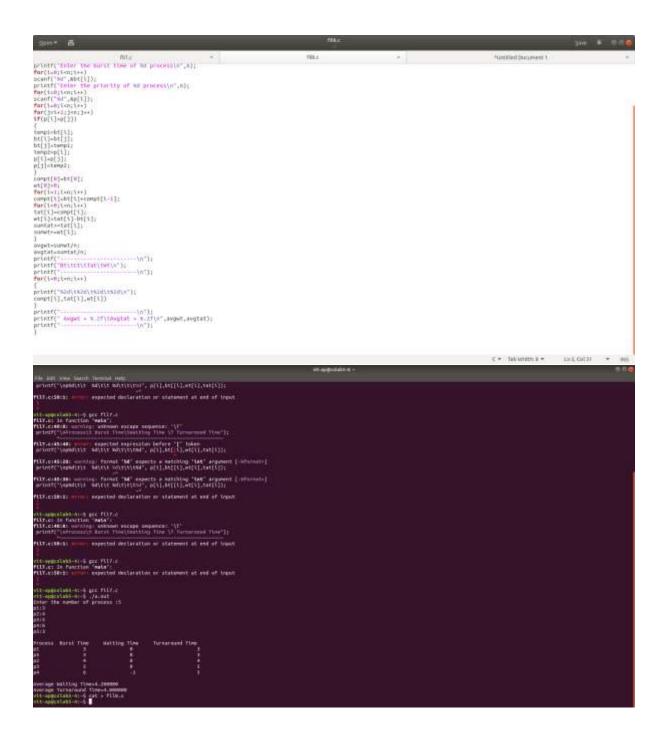
import java.lang.*; import java.util.*; class A1 extends Thread int i,j; A1(int x, int y)<u>i=x;</u> <u>j=y;</u> public void run() System.out.println("Thread A::ARITHMATIC OPERATIONS"); System.out.println("SUM" +(i+j)); System.out.println("DIFFERNCE "+(i-j)); System.out.println("PRODUCT " +(i*j)); $\overline{\text{System.out.println}(\text{"RATIO "} + (i/j))};$ System.out.println("POWER "+Math.pow(i,j)); System.out.println("END of A"); } class B1 extends Thread int i; B1(int x)<u>i=x;</u> public void run() System.out.println("THREAD B :: TRIGNOMETIC OPERATIONS"); System.out.println("SINE OF "+i+""+Math.sin(i)); System.out.println("COSINE OF "+i+""+Math.cos(i)); System.out.println("TAN OF "+i+""+Math.tan(i));

```
System.out.println("SQUARE ROOT OF "+i+""+Math.sqrt(i));
System.out.println(" END OF B");

class mul
{
  public static void main(String args[])
{
    Scanner s= new Scanner(System.in);
    System.out.println("ENTER WOO VALUES FOR ARITHMETIC OPERATIONS");
    int x=s.nextInt();
    int y=s.nextInt();
    System.out.println("ENTER A VALUE FOR TRIGNOMETIRC OPERATIONS");
    int z=s.nextInt();
    Al a=new Al(x,y);
    Bl b=new Bl(z);
    a.start();
    b.start();
    b.start();
}
```

SCREENSHOTS:







```
The last was family (membal and)

And passive struct class, interface, or mean expected

and passive structure structure, or mean expected

and passive structure, or mean expected

and passive
```