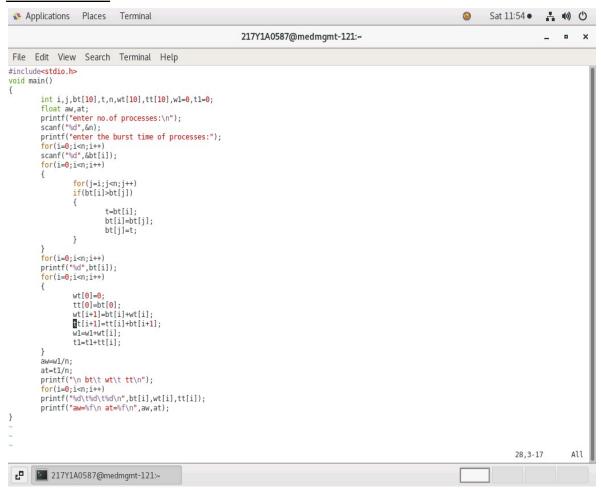
1.<u>AIM:</u> write a c program to implement the FCFS program.

PROGRAM:

```
#include<stdio.h>
void main()
{
         int i, j, bt[10], n, wt[10], tt[10], w1=0, t1=0;
         float aw, at;
         printf("enter the no.of processes:\n");
         scanf("%d",&n);
         printf("enter the burst time of processes:");
         for(i=0;i<n;i++)
         scanf("%d",&bt[i]);
         for(i=0;i<n;i++)
                  wt[0]=0;
                  tt[0]=bt[0];
                  wt[i+1]=bt[i]+wt[i];
                  tt[i+1]=tt[i]+bt[i+1];
                  w1=w1+wt[i];
                  t1=t1+tt[i];
         }
         aw=w1/n;
         at=t1/n;
         printf("\n bt\t wt\t tt\n");
         for(i=0;i<n;i++)</pre>
         printf("%d\t%d\t%d\t \n ",bt[i],wt[i],tt[i]);
         printf("aw=%f\n at=%f\n",aw,at);
}
OUTPUT:
[217Y1A0587@medmgmt-121 ~]$ cc fcfs.c
[217Y1A0587@medmgmt-121 ~]$ ./a.out
enter the no.of processes:
enter the burst time of processes:
6
7
 bt
        wt
               tt
5
       0
              5
 6
       5
              11
 7
              18
       11
 aw=5.000000
 at=11.000000
[217Y1A0587@medmgmt-121 ~]$
```

2.AIM: write a c program to implement the SJF program.

PROGRAM:



OUTPUT:

```
[217Y1A0587@medmgmt-121 ~]$ vi sjf.c
[217Y1A0587@medmgmt-121 ~]$ cc sjf.c
[217Y1A0587@medmgmt-121 ~]$ ./a.out
enter no.of processes:
3
enter the burst time of processes:
6
5
4
456
bt
         wt
                  tt
4
        0
                 4
5
        4
                 9
6
        9
                 15
aw=4.000000
 at=9.000000
[217Y1A0587@medmgmt-121 ~]$
```

1.<u>AIM:</u> write a c program to implement the Round Robin program.

PROGRAM:

```
void main()
           int st[10],bt[10],wt[10],tat[10],n,tq;
int i,count=0,swt=0,stat=0,temp,sq=0;
float awt=0.0,atat=0.0;
           printf("Enter number of processes:");
scanf("%d",&n);
printf("Enter burst time for sequences:");
for(i=0;i<n;i++)</pre>
                       scanf("%d",&bt[i]);
                       st[i]=bt[i];
           printf("Enter time quantum:");
scanf("%d",&tq);
           while(1)
                       for(i=0,count=0;i<n;i++)
                                  temp=tq;
                                   if(st[i]==0)
                                              count++;
                                              continue;
                                   if(st[i]>tq)
                                  st[i]=st[i]-tq;
                                   else
                                   if(st[i]>=0)
                                              temp=st[i];
                                              st[i]=0;
                                  sq=sq+temp;
                                   tat[i]=sq;
                       if(n==count)
                       break;
            for(i=0;i<n;i++)
                       wt[i]=tat[i]-bt[i];
                       swt=swt+wt[i];
                       stat=stat+tat[i];
           awt=(float)swt/n;
           atat=(float)stat/n;
printf("Process_no Burst time Wait time Turn around time");
           for(i=0;i<n;i++)
printf("\n%d\t %d\t %d\t %d",i+1,bt[i],wt[i],tat[i]);
printf("\nAvg wait time is %f Avg turn around time is%f",awt,atat);</pre>
}
```

OUTPUT:

```
[217Y1A0587@medmgmt-48 ~]$ vi rr.c
[217Y1A0587@medmgmt-48 ~]$ cc rr.c
[217Y1A0587@medmgmt-48 ~]$ ./a.out
Enter number of processes:3
Enter burst time for sequences:
8
10
Enter time quantum:2
Process no Burst time Wait time Turn around time
         8
                 12
                         20
         10
                 14
                         24
                 12
                         18
Avg wait time is 12.666667 Avg turn around time is20.666666
```

2.<u>AIM:</u> write a c program to implement the Priority program.

PROGRAM:

```
#include<stdio.h>
void main()
                    int i,j,pno[10],prior[10],bt[10],n,wt[10],tt[10],wl=0,tl=0,s;
                   float aw,at;
printf("enter the number of processes:");
scanf("%d",&n);
                   for(i=0;i<n;i++)</pre>
                             printf("The process %d:\n",i+1);
printf("Enter the burst time of processes:");
scanf("%d",&bt[i]);
                             printf("Enter the priority of processes %d:",i+1);
                             scanf("%d",&prior[i]);
                             pno[i]=i+1;
                    for(i=0;i<n;i++)
                             for(j=0;j<n;j++)
                                       if(prior[i]<prior[j])</pre>
                                                 s=prior[i];
                                                 prior[i]=prior[j];
                                                 prior[j]=s;
                                                 s=bt[i];
                                                 bt[i]=bt[j];
                                                 bt[j]=s;
                                                 s=pno[i];
                                                 pno[i]=pno[j];
                                                 pno[j]=s;
                    for(i=0;i<n;i++)
                             wt[0]=0;
                             tt[0]=bt[0];
                             wt[i+1]=bt[i]+wt[i];
                             tt[i+1]=tt[i]+bt[i+1];
                             wl=wl+wt[i]:
                             tl=tl+tt[i];
                             aw=w1/n;
                             at=t1/n;
                   printf("\n job \t bt \t wt \t tat \t prior\n");
                   for(i=0;i<n,i++)
printf("%d \t %d\t %d\t %d\n",pno[i],bt[i],wt[i],tt[i],prior[i]);
printf("aw=%f \t at=%f \n",aw,at);</pre>
```

OUTPUT:

```
[217Y1A0587@medmgmt-48 ~]$ vi priority.c
[217Y1A0587@medmgmt-48 ~]$ cc priority.c
[217Y1A0587@medmgmt-48 ~]$ ./a.out
enter the number of processes:3
The process 1:
Enter the burst time of processes:4
Enter the priority of processes 1:2
The process 2:
Enter the burst time of processes:7
Enter the priority of processes 2:1
The process 3:
Enter the burst time of processes:8
Enter the priority of processes 3:3
 job
         bt
                 wt
                         tat
                                  prior
2
                 Θ
1
         4
                 7
                         11
         8
                 11
                         19
                                  3
aw=6.000000
                 at=12.000000
```

1.<u>AIM:</u> write a c program to implement the System calls program.

PROGRAM:

```
#include<unistd.h>
#include<fcntl.h>
#include<string.h>
#include<stdio.h>
int main()
        int fd[2];
        char buf1[25]="just for test\n";
        char buf2[100];
        fd[0]=open("tfile.txt",0 RDWR);
        fd[1]=open("tfile.txt",0 RDWR);
        write(fd[0],buf1,strlen(buf1));
        printf("\nenter your test now...");
        scanf("%s",&buf1);
        write(fd[0],buf1,strlen(buf1));
        write(1,buf2,read(fd[1],buf2,sizeof(buf2)));
        close(fd[0]);
        close(fd[1]);
        printf("\n");
        return 0;
}
just for test
hi
OUTPUT:
[217Y1A0587@medmgmt-48 ~]$ vi sc.c
[217Y1A0587@medmgmt-48 ~]$ vi tfile.txt
[217Y1A0587@medmgmt-48 ~]$ vi sc.c
[217Y1A0587@medmgmt-48 ~]$ cc sc.c
[217Y1A0587@medmgmt-48 ~]$ ./a.out
enter your test now...hi
just for test
hi
[217Y1A0587@medmgmt-48 ~]$ vi tfile.txt
```