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COURSE- BSC IT-2B

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Q.2. Problem Question :-

```c
# include < stdio.h>
# include < conio.h>
# include < string.h>
void main ()
{
    int et [20], at [10], n, i, j, temp, st [10], ft [10], wt [10],
        ta [10];
    int totwt = 0, totta = 0
    float awt, ata;
    char pn [10] [10], t [10];
    printf ("Enter the number of process :");
    scanf ("%d", &n);
    for (i = 0; i < n; i++)
    {
        printf ("Enter process name , arrival time & execution time :");
        scanf ("%s %d %d", pn[i], &at[i], &et[i]);
    }
    for (i = 0; i < n; i++)
    for (j = 0; j < n; j++)
```

Anisha
22/06/21

```c
{
    if (et[i] < et[j])
    {
        temp = at[i];
        at[i] = at[j];
        at[j] = temp;
        temp = et[i];
        et[i] = et[j];
        et[j] = temp;
        strcpy(t, pn[i]);
        strcpy(pn[j], t);
    }
}
for(i=0; i<n; i++)
{
    if(i==0)
    st[i] = at[i];
    else
    st[i] = ft[i-1];
    wt[i] = st[i] - at[i];
    ft[i] = st[i] + et[i];
    ta[i] = ft[i] - at[i];
    totwt += wt[i];
    totta += ta[i];
}
```

Aniesh
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```c
awt = (float) totwt /n;
ata = (float) totta /n;
printf("\nename\tarrivaltime\texecutiontime\
            twaitingtime\ttatime");

for(i=0; i<n; i++)
printf("\n%-5|t %5d\t|t%5d\t|t%5d\t|t%5d",
                pn[i], at[i], et[i], wt[i], ta[i]);

printf("\nAverage waiting time is : %.f", awt);
printf("\nAverage turnaroundtime is : %.f", ata);
getch();
}
```

Amish
22/06/21.