OS LAB WEEK 1
1BM21CS219

Code :-

```
#include<stdio.h>

 int main()

{
   int n,bt[30],at[30],bts[30]={0},wait_t[30],turn_ar_t[30],av_wt_t=0,avturn_ar_t=0,i,j;
   printf("Please enter the total number of processes(maximum 30):");  // the maximum process that be used to calculate is specified.
   scanf("%d",&n);

   printf("\nEnter The Process Burst Time");
   for(i=0;i<n;i++)  // burst time for every process will be taken as input
   {
      printf("P[%d]:",i);
      scanf("%d",&bt[i]);
   }
    printf("\nEnter The Arrival Time");
   for(i=0;i<n;i++)  // burst time for every process will be taken as input
   {
      printf("AT[%d]:",i);
      scanf("%d",&at[i]);
   }
   for(i=0;i<n;i++)
   {

      for(j=0;j<=i;j++){
         bts[i] += bt[j];
      }

   }
   for(i=0;i<n;i++){
      printf("%d ",bts[i]);
   }
   int tat[30];
   for(i=0;i<n;i++){
```

```
        tat[i] = bts[i] - at[i];
    }
    float tat_avg = 0;
    for(i=0;i<n;i++){
        tat_avg += tat[i];
    }
    tat_avg = tat_avg/n;
    printf("\n%f",tat_avg);
    int awt[30];
    for(i=0;i<n;i++){
        awt[i] = tat[i] - bt[i];
    }
    float awt_avg=0;
    for(i=0;i<n;i++){
        awt_avg+= awt[i];
    }
    awt_avg = awt_avg/n;
    printf("\n%f",awt_avg);


}
```

Output :-