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PATE -> 22/6/21
SIGN -> Saurabh
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COURSE - BSC IT (B)

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SUBJECT - Operating System.

CODE - PBI-202

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Question 2:-
              SOURGE CODE :-
 #in clude (stdio-h)
   int main ()
  int bt[20], p[20], wt[20], tat[20], i, j, n, total = 0, pos, temp:
                                                   temp;
    float avg_wt, avg_tat;
    Printf ("Enter number of process:");
    scantf ("%d", &n);
   Printf ("In fater Burst Time: In");
   for (i=0; ixn; i++)
        Printf ("p%d:", i+1);
       Scanf (" 9.d", @ b+[i]);
        P[i] = i+1;
       for (1=0; (14; 1++)
         Pos= 13
       for (j= i+1; j<n; j++)
         if (bt [j] < bt [Pos])
           pos = j;
```

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MATE - 32/6/21
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temp = bt[i];
 bt [i] = bt[Pos];
 bt [Pas] = temp;
 temp= p[i];
 P[] = P[POS];
  P[Pas] = temp;
 cot [0] = 0;
for (i=1; i<n; i++)
   w+[i] = 0;
   for (j=0; j<1; j++)
   6+ [i] ++ = b+ [j];
  total += w+[i];
  avg-wt= (float) total/h;
  total = 0;
  Pointf ("In Bocess It Burst Time It waiting Time
                                      It turnaround time");
  for (1=0; jkn; 1++)
   tat[i] = bt[i]+wt[i];
   total + = tat [1];
   Printf (" Inp"/d|t|t "od|t|t",
                   PCIJ, bt [i], ot[i], tat[i];
```

avg_tat = (float) total /n;

Printf ("In In Augerage Waiting Time = "/of", avg_wt);

Printf ("In-Augerage Turnoround Time = "/of", avg_tat);

SIGN - soundsh

```
for(i=0;i<n;i++)
                     pos=i;
for(j=i+1;j<n;j++)
{
                             if(bt[j] (bt[pos])
                             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=1;i<n;i++)
{</pre>
                     wt[i]=0;
for(j=0;j<i;j++)
wt[i]+=bt[j];
total+=wt[i];</pre>
43
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               avg_wt=(float)total/n;
              total=0;
printf("\nProcess\t
for(i=0;i<n;i++)</pre>
48
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                                                        Burst Time \tWaiting Time\tTurnaround Time");
                     tat[i]=bt[i]+wt[i];
total+=tat[i];
printf("\np%d\t\t %d\t\t
                                                                          %d\t\t%d",p[i],bt[i],wt[i],tat[i]);
                     avg_tat=(float)total/n;
ntf("\n\nAverage Waiting Time=%f",avg_wt);
ntf("\nAverage Turnaround Time=%f\n",avg_tat);
```

input

Enter number of process:4