Name: Gunjan Dimri
Course: BSc. IT(2) Sec: A
University roll no: 2023055

Program

```
#include <stdio.h> int
waitingtime (int proc[], int n, int burst_time[], int
  wait_time[])
{
  wait_time[0] = 0;
  for(int i = 1; i<n ; i++)
    wait_time[i] = burst_time[i-1]+ wait_time[i-1];
  return 0;
}
int
turnaroundtime (int proc[], int n, int burst_time[],
int wait_time[], int tat[])
{
 int i;
 for(i=0 ; i<n ;i++)
    tat[i]= burst_time[i]+wait_time[i];
  return 0;
}

int
avgtime (int proc[], int n, int burst_time[])
{
 int wait_time[n], tat[n], total_wt = 0, total_tat=0
 int i;
 waitingtime (proc, n, burst_time, wait_time);
 turnaroundtime(proc, n, burst_time, wait_time, tat);
 printf("Processes Burst waiting Turn around \n");
```

Gunjan
19/06/2024

```
for (i=0; i<n ; i++)
  {
   total_wt= total_wt + wait_time[i];
   total_tat = total_tat + tat[i];
   printf ("%d \t %d \t\t %d \t%d \n", i+1,
   burst_time[i], wait_time[i], tat[i];
  }
printf ("Average waiting time = %f \n", (float)
        total_wt /(float) n);
printf ("Average turn around time = %f \n", (float)
        total_tat /(float) n);
}
int
main()
 {
  int proc[] = {1,2,3};
  int n = sizeof proc / sizeof proc[0];
  int burst_time[] = {5, 8, 12};
  avgtime (proc, n, burst_time);
  return 0;
}
```

Gowtham
19/06/2021