Lab Assignment 3: CPU Scheduling

Name: Shivam Ganesh Gavandi

Roll no: 80 Class: TY-A

1)FCFS

```
#include <iostream>
using namespace std;
void findWaitingTime(int processes[], int n,
                    int bt[], int wt[])
void findTurnAroundTime(int processes[], int n,
void findavgTime(int processes[], int n, int bt[])
```

```
findWaitingTime(processes, n, bt, wt);
   findTurnAroundTime(processes, n, bt, wt, tat);
  cout << "Processes "
       << " Burst time "
       << " Waiting time "
       << " Turn around time\n";
  cout << "Average waiting time = "</pre>
  cout << "\nAverage turn around time = "</pre>
int main()
```

```
int processes[] = {1, 2, 3};
int n = sizeof processes / sizeof processes[0];

int burst_time[] = {10, 5, 8};

findavgTime(processes, n, burst_time);
  return 0;
}
```

Output=

Processes Burst time Waiting time Turn around time

1 10 0 10

2 5 10 15

3 8 15 23

Average waiting time = 8.33333

Average turn around time = 16

2)SJF

```
#include <stdio.h>
int main()
{
  int A[100][4];
  int i, j, n, total = 0, index, temp;
  float avg_wt, avg_tat;
  printf("Enter number of process: ");
  scanf("%d", &n);
  printf("Enter Burst Time:\n");
```

```
for (i = 0; i < n; i++)
   printf("P%d: ", i + 1);
    A[index][1] = temp;
   A[index][0] = temp;
A[0][2] = 0;
```

3)round robin

```
.while (1)
           else
```

```
rem_bt[i] = 0;
          break;
void findTurnAroundTime(int processes[], int n,
void findavgTime(int processes[], int n, int bt[],
  findWaitingTime(processes, n, bt, wt, quantum);
  findTurnAroundTime(processes, n, bt, wt, tat);
  cout << "PN\t "
       << " \tBT "
```

```
<< " \tTAT\n";
   cout << "Average waiting time = "</pre>
   cout << "\nAverage turn around time = "</pre>
int main()
   findavgTime(processes, n, burst_time, quantum);
   return 0;
```

Output

PN BT WT TAT

1 10 13 23

2 5 10 15

3 8 13 21

Average waiting time = 12

Average turn around time = 19.6667