OPERATING SYSTEM - CS23431

EXP 6(A)

FIRST COME FIRST SERVE

NAME: ARUL JOTHI P ROLL NO: 230701034

PROGRAM:

#include <stdio.h> int main() { int n, i; printf("Enter number of processes: "); scanf("%d", &n);

int bt[n], wt[n], tat[n];

printf("\nEnter burst time for each process:\n");

for (i = 0; i < n; i++) { printf("P[%d]: ", i + 1); scanf("%d", &bt[i]);

}

wt[0] = 0; for (i = 1; i < n; i++) { wt[i] = wt[i - 1] + bt[i - 1];

}

for (i = 0; i < n; i++) { tat[i] = bt[i] + wt[i];

}

int total\_wt = 0, total\_tat = 0; for (i = 0; i < n; i++) { total\_wt += wt[i]; total\_tat += tat[i];

}

printf("\nProcess\tBurst Time\tWaiting Time\tTurnaround Time\n"); for (i = 0; i < n; i++) {

printf("P[%d]\t%5d\t\t%5d\t\t%5d\n",

i + 1, bt[i], wt[i], tat[i]);

}

printf("\nTotal waiting time = %d\n", total\_wt); printf("Total turnaround time = %d\n", total\_tat); printf("Average waiting time = %.2f\n", (float)total\_wt / n); printf("Average turnaround time = %.2f\n", (float)total\_tat / n);

return 0;

}

OUTPUT:

