# EXPERIMENT 4

# Construct a scheduling program with C that selects the waiting process with the smallest execution time to execute next.

**AIM:** Construct a scheduling program with C that selects the waiting process with the smallest execution time to execute next.

## ALGORITHM:

* 1. Include necessary headers:

Include the necessary header files like <stdio.h> for input/output operations.

* 1. Define the process structure:

Define a structure to hold the process information, such as process ID, arrival time, burst time, waiting time, and turnaround time.

3.Input the number of processes and their details:

Input the number of processes and their arrival time and burst time. 4.Sort processes by burst time:

Sort the processes based on burst time in ascending order. 5.Calculate waiting time and turnaround time:

Calculate the waiting time and turnaround time for each process based on the SJF scheduling algorithm.

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Description automatically generated6.Display the scheduling information:Display the process details including process ID, arrival time, burst time, waiting time, and turnaround time