

Government Engineering College **Thrissur**

CS331 – System Software **LabDocumentation**

Exp6 – Dining Philosopher Problem

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Submitted By,
Rejath T M
Roll No 50
TCR18CS050
GECT CSE S5

Experiment 7:

Dining Philosopher problem

Compilation of CodePrerequisite

- The code is provided in the **program.c** file along with its documentation. You just need to run it on any compiler.
- Compile like `gcc program.c -lpthread`
`.\a.exe`
- The number of philosophers id hardcoded as 7 if want to change at `#define N <Any odd number>`
- Here seven threads are created one for ech Philosopher
- Output of the file will be stored in the **output.txt** file as well as terminal or compiler in which it is executed.
- As out 3 status are printed, if more needed you can remove comments in code.

Output Screenshots

```
PS C:\Users\rejat\Desktop\Assignment\ss lab\e7\upload> .\a.exe

Philosopher 1 is Waiting to Eat
Philosopher 2 is Waiting to Eat
Philosopher 3 is Waiting to Eat
Philosopher 1 is Eating
Philosopher 3 is Eating
Philosopher 7 is Waiting to Eat
Philosopher 5 is Waiting to Eat
Philosopher 4 is Waiting to Eat
Philosopher 1 Finished Eating
Philosopher 6 is Waiting to Eat
Philosopher 7 is Eating
Philosopher 3 Finished Eating
Philosopher 7 Finished Eating
Philosopher 5 is Eating
Philosopher 5 Finished Eating
Philosopher 4 is Eating
Philosopher 6 is Eating
Philosopher 4 Finished Eating
Philosopher 6 Finished Eating
Philosopher 2 is Eating
Philosopher 2 Finished Eating
PS C:\Users\rejat\Desktop\Assignment\ss lab\e7\upload> □
```