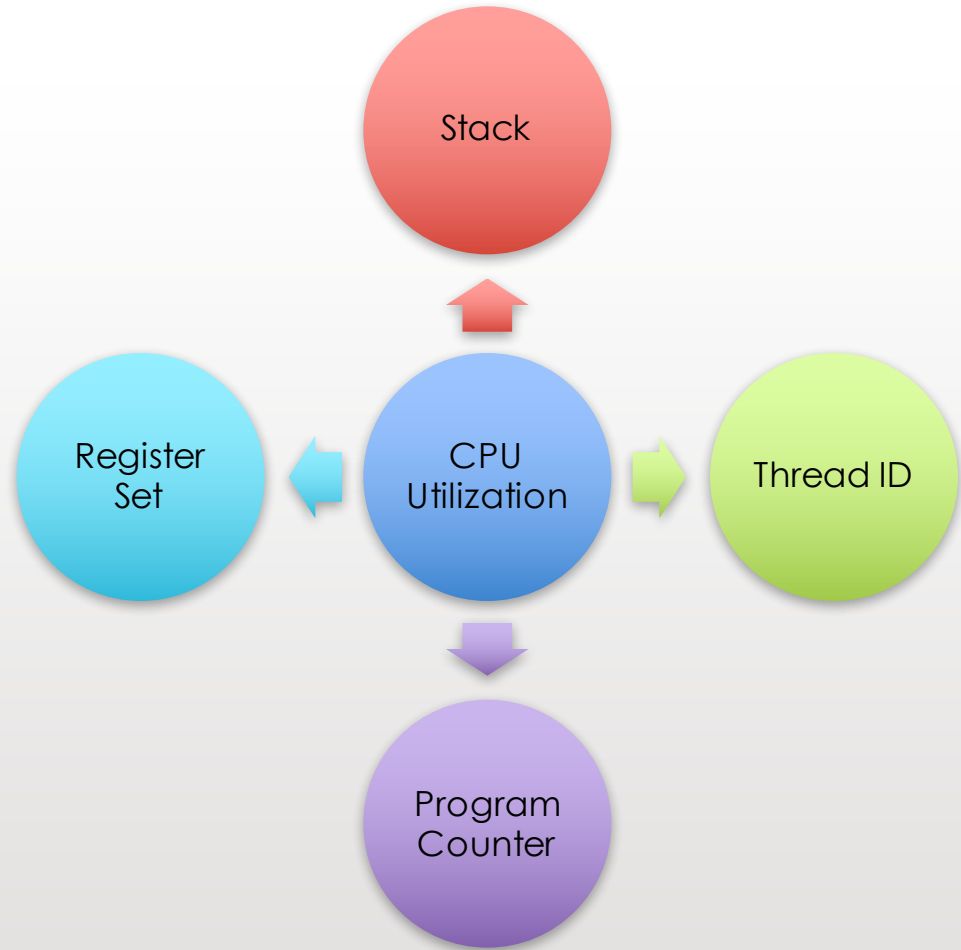




# Threads

- Single Threaded
- Multi Threaded (lightweight process)



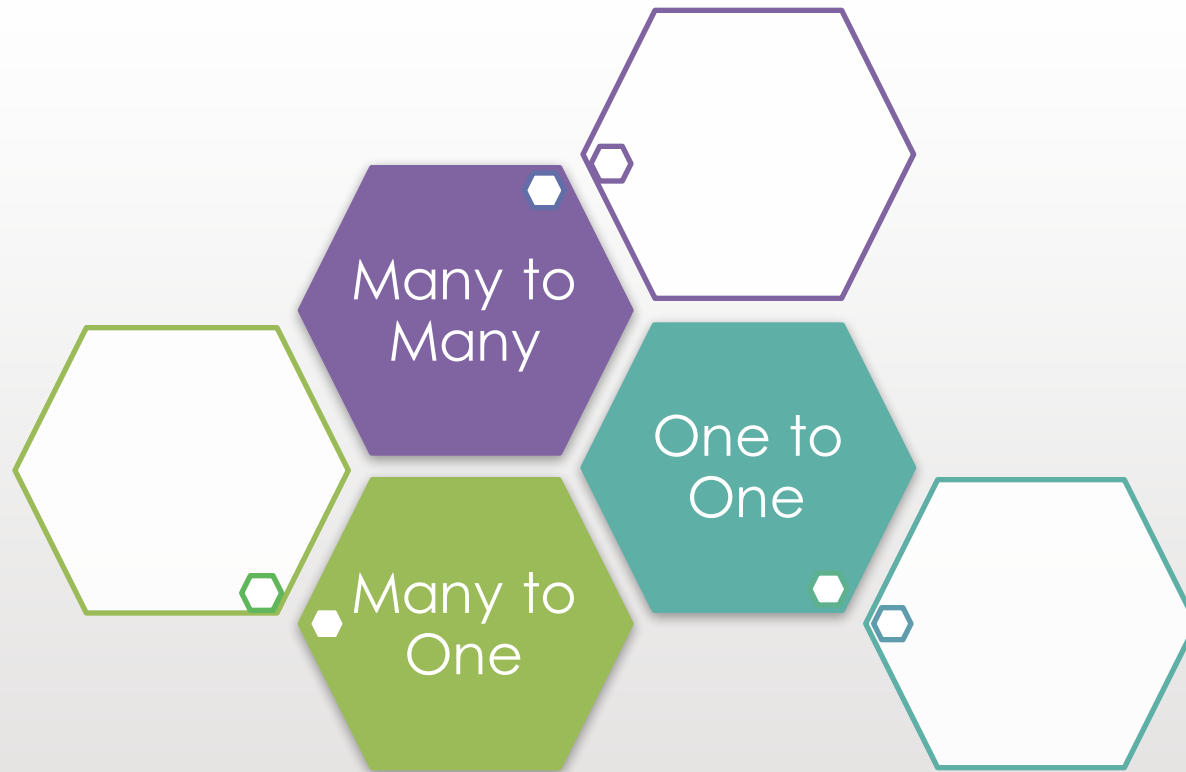


# Advantages of Multi Threaded

- **Responsive**
- **Resource sharing**
- **Economy**
- **Scalability**



# Multi Thread Models





# Thread Libraries

- **API to create and manage threads**
  - **Pthreads**
  - **Windows threads**
  - **Java threads**



# Issues

- **System calls**
- **Signal handling**
- **Thread cancellation**
- **Thread local storage**
- **Activation of scheduler**