**Difference Between Multithreading and Multitasking**

In this article, we will discuss the differences between Multithreading and Multitasking. People generally get confused between these terms. On one hand, **Multitasking** is a logical extension to multiprogramming, and on the other hand, **Multithreading** is thread-based multitasking.

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| **MULTITASKING** | **MULTITHREADING** |
| Execution of more than one program/task at same time. | Execution of more than one thread at same time. If two programs/task written on a single thread second one will run after first finished. |
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| Switching of Programs/Task by CPU to run them simultaneously. | Switching of Threads by CPU to run threads simultaneously. |
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| Memory and resource allocation are different for each program/task. | Share resources and memory due to thread. |
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| In a multitasking operating system, several users can share the system simultaneously. As we saw the CPU rapidly switches among the tasks, so a little time is needed to switch from one user to the next user. This puts an impression on a user that entire computer system is dedicated to him. | Multithreading increases the responsiveness of system as, if one thread of the application is not responding, the other would respond in that sense the user would not have to sit idle. |
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| Using Tab environment in Browser is a simple example of multitasking where user can listen from one tab and using social site on another tab simultaneously. | Banking transaction can be example of Multithreading, each transaction performs on FIFO basis with all restrictions. |
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**Conclusion**

Multitasking is similar to multiprogramming whereas, Multithreading is thread-based multitasking. Multithreading is less costly than multitasking as threads are easy to create then a process.