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Subject: JAVA (5th sem.)
Topic: How to create thread

How to create thread

There are two ways to create a thread:

1. By extending Thread class
2. By implementing Runnable interface.

Thread class:

- Thread class provide constructors and methods to create and perform operations on a thread.
- Thread class extends Object class and implements Runnable interface.

Commonly used Constructors of Thread class:

- ✓ Thread()
- ✓ Thread(String name)
- ✓ Thread(Runnable r)
- ✓ Thread(Runnable r,String name)

Commonly used methods of Thread class:

- ✓ **public void run():** is used to perform action for a thread.
- ✓ **public void start():**starts the execution of the thread. JVM calls the run() method on the thread.
- ✓ **public void sleep(long miliseconds):** Causes the currently executing thread to sleep (temporarily cease execution) for the specified number of milliseconds.
- ✓ **public void join():** waits for a thread to die.
- ✓ **public void join(long miliseconds):** waits for a thread to die for the specified miliseconds.
- ✓ **public int getPriority():** returns the priority of the thread.
- ✓ **public int setPriority(int priority):** changes the priority of the thread.
- ✓ **public String getName():** returns the name of the thread.
- ✓ **public void setName(String name):** changes the name of the thread.
- ✓ **public void suspend():** is used to suspend the thread(depricated).
- ✓ **public void resume():** is used to resume the suspended thread(depricated).
- ✓ **public void stop():** is used to stop the thread(depricated).

- ✓ **public int getId():** returns the id of the thread.
- ✓ **public boolean isAlive():** tests if the thread is alive.

Example: