

◆ Demo Flow (Step by Step)

1. Start a process in the foreground

sleep 100

- Terminal will hang for 100 seconds.
 - Tell students: *"This process is now running in the foreground."*
 - Stop it with Ctrl+C.
-

2. Start a process in the background

sleep 100 &

- The & runs it in the background.
 - Terminal will print the **PID** and job number.
-

3. List background jobs

jobs

- Shows jobs like [1]+ Running sleep 100 &.
-

4. List running processes

ps aux | grep sleep

- Shows details of sleep process with PID.
-

5. Kill the process

kill -9 <PID>

- Replace <PID> with the process ID from ps.
 - Or kill the job directly:
 - kill %1
-

6. Verify it's gone

jobs

ps aux | grep sleep

- Process should no longer appear.

◆ Script Version (for practice)

You can put this in a file process_demo.sh:

```
#!/bin/bash
```

```
echo "Starting a background process..."
```

```
sleep 100 &
```

```
echo "Listing jobs:"
```

```
jobs
```

```
PID=$!
```

```
echo "The process ID is $PID"
```

```
echo "Listing the process with ps:"
```

```
ps -p $PID
```

```
echo "Killing the process..."
```

```
kill -9 $PID
```

```
echo "Checking if process is still running..."
```

```
ps -p $PID || echo "Process terminated!"
```

```
Run it with: ./process_demo.sh
```