



The screenshot shows the Eclipse IDE's console window. The title bar includes tabs for 'Problems', 'Javadoc', 'Declaration', and 'Console'. The console output displays the following text: '<terminated> Main (2) [Java Application] C:\Users\bhuvil\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_17.0.9.v20231028-0858\jre\bin\javaw.exe (17-Jun-2025, 9:08:13 pm - 9:08:13 pm) [pid: 21340]'. Below this, it shows 'Linear Search Result: 123 - Mobile (Electronics)' and 'Binary Search Result: 123 - Mobile (Electronics)'. The console window has a standard toolbar with icons for running, debugging, and other IDE functions.

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<terminated> Main (2) [Java Application] C:\Users\bhuvil\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_17.0.9.v20231028-0858\jre\bin\javaw.exe (17-Jun-2025, 9:08:13 pm - 9:08:13 pm) [pid: 21340]
Linear Search Result: 123 - Mobile (Electronics)
Binary Search Result: 123 - Mobile (Electronics)
```

I created a Product list and searched for a product using both methods.
Linear search checks one by one, while binary search divides and conquers.
Binary search is faster but needs the list sorted.
So for a real platform, binary search is better for speed and performance.