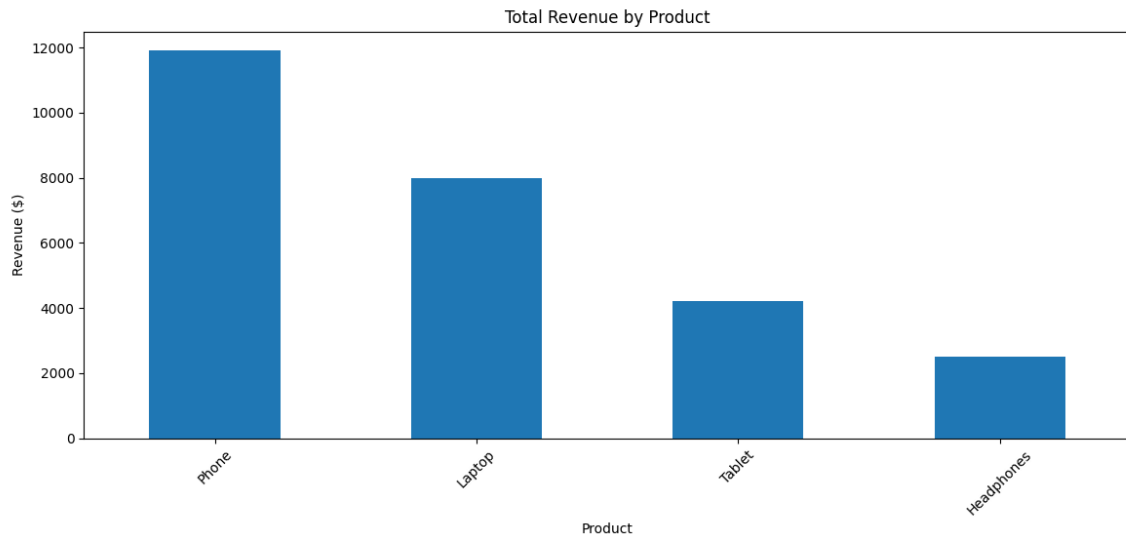## Visualization:



## Output: