1. **What is vectorization in NumPy?**
   Vectorization is performing operations on entire arrays at once instead of using loops, making computations faster.
2. **What is the difference between reshape() and resize()?**
   reshape() returns a new view with a changed shape without modifying data, while resize() changes the shape of the original array.
3. **What are NumPy dimensions and axes?**
   Dimensions indicate the number of array levels (1D, 2D, etc.), and axes represent directions along which operations are performed.
4. **What is slicing in NumPy arrays?**
   Slicing is extracting a portion of an array using index ranges.
5. **How does NumPy help in mathematical computations for AI?**
   NumPy provides fast array operations, linear algebra functions, and vectorized computations essential for AI algorithms.