```
print("-"*30)
print("Shape:", arr2d.shape)
print("Size (elements):", arr2d.size)
print("Dimensions:", arr2d.ndim)
print("Item size (bytes):", arr2d.itemsize)
print("Data type:", arr2d.dtype)
print("="*50)

# 3. Basic Operations
print("3. Basic Operations (Element-wise)")
print("-"*30)
a = np.array([10, 20, 30, 40])
b = np.array([1, 2, 3, 4])
print("a:", a)
print("b:", b)
print("a + b:", a + b)
print("a - b:", a - b)
print("a * b:", a * b)
print("a / b:", a / b)
print("a ** 2:", a ** 2)
print("sin(a):", np.sin(a))
print("sqrt(a):", np.sqrt(a))
print("="*50)

# 4. Indexing & Slicing
print("4. Indexing and Slicing")
print("-"*30)
arr = np.array([10, 20, 30, 40, 50, 60])
print("arr:", arr)
print("First element :", arr[0])
print("Last element :", arr[-1])
print("Slice [1:4] :", arr[1:4])
print("Every 2nd:", arr[::2])
print("Reverse:", arr[::-1])

# 2D Indexing
matrix = np.array([[1, 2, 3],
[4, 5, 6],
[7, 8, 9]])
print("\n2D Matrix:\n", matrix)
print("Element [1,2] :", matrix[1, 2]) # row 1, col 2 → 6
print("First row:", matrix[0])
print("First column:", matrix[:, 0])
print("Submatrix 2x2:\n", matrix[:2, :2])
print("="*50)

# 5. Reshaping Arrays
print("5. Reshaping")
```