## 3. TensorFlow Computation Graph with Eager Execution

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In [ ]: # Import TensorFlow library for building and running machine learning models
        import tensorflow as tf
In [ ]: # Define constant tensors a and b
        a = tf.constant([5.0, 3.0]) # Tensor with values [5.0, 3.0]
        b = tf.constant([2.0, 7.0]) # Tensor with values [2.0, 7.0]
In [ ]: # Eager execution: add tensors a and b element-wise, result is [7.0, 10.0]
        c = a + b
        # Convert tensor to numpy array and print the result
        print("Eager Execution Output: ", c.numpy())
       Eager Execution Output: [ 7. 10.]
In [ ]: # Define a function to multiply two tensors element-wise
        @tf.function # Converts the function to a TensorFlow computation graph (graph mode)
        def multiply_tensors(x, y):
           return x * y
In [ ]: # Call the graph mode function with a and b, result is [10.0, 21.0]
        result = multiply_tensors(a, b)
        # Convert tensor to numpy array and print the result
        print("Graph Mode Output:", result.numpy())
       Graph Mode Output: [10. 21.]
In [ ]:
```