

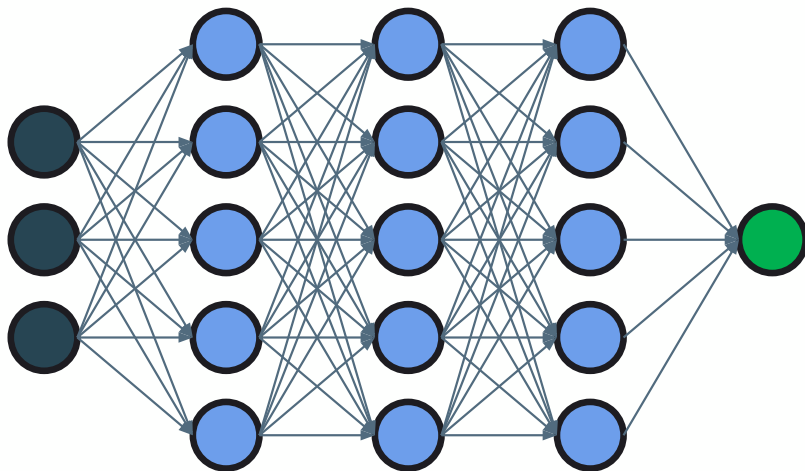
The top corners of the slide feature abstract geometric shapes. The top-left corner has a brown-to-orange gradient parallelogram. The top-center has a dark blue diamond. The top-right corner has a teal-to-blue gradient parallelogram. The background is a solid dark blue with several faint, dark blue geometric shapes scattered across it.

# **Assignment: Implementing Backpropagation**

# Assignment

In this assignment, you have to do the following:

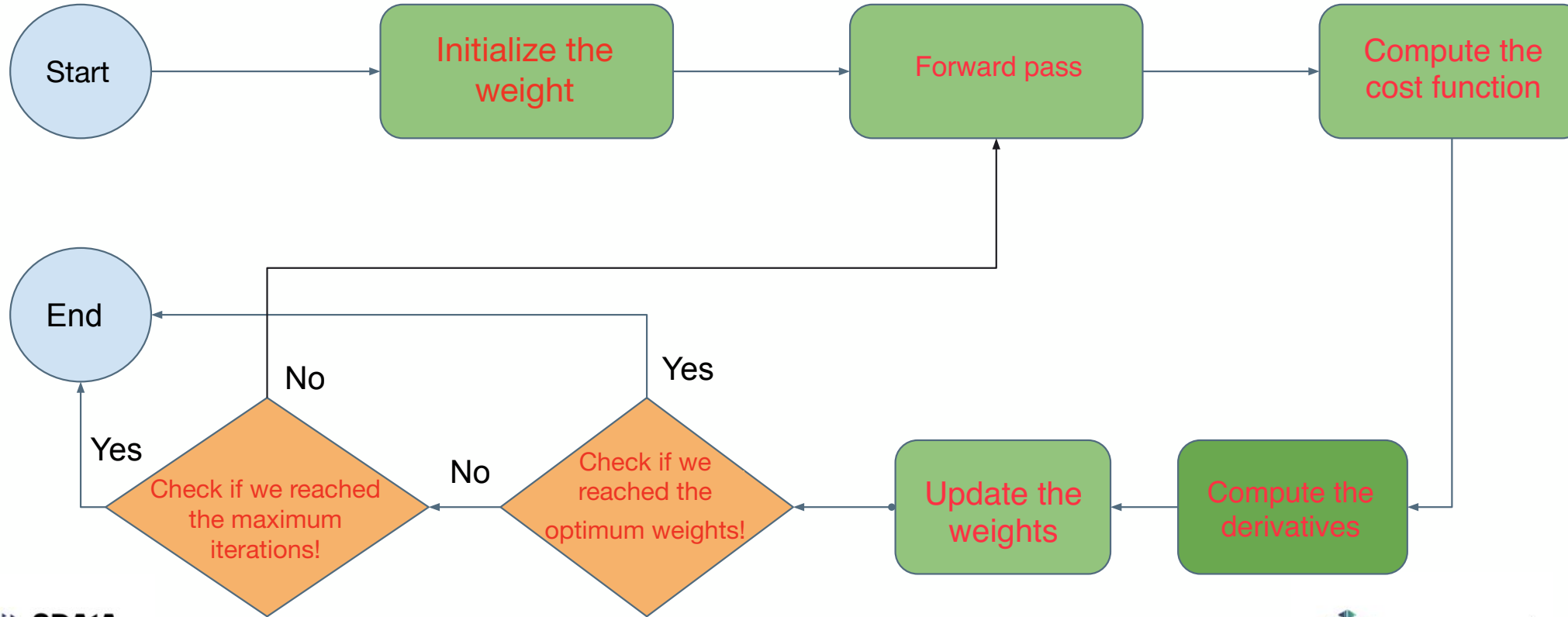
1. Fill in the chart represented in the next slide
2. Order the steps listed in slide 5 to complete the backpropagation of a neural network



# Part 1: Filling the chart

- In the next slide you need to fill in the green text boxes with the appropriate step of the process of training a neural network.
- You also need to replace stopping criteria 1 and 2 with two suitable criteria.

# Assignment



## Part 2: Order the following steps to train a neural network

1. Repeat (Iterate) 5
2. Calculate Loss 2
3. Forward Pass 1
4. Weight and Bias Update 4
5. Model Evaluation 7
6. Stop Condition 6
7. Backward Pass - Gradient Computation 3

Solution:

1. Forward pass
2. Calculate loss
3. Backward pass - gradient computation
4. Weight and bias update
5. Repeat (iterate)
6. Stop condition
7. Model evaluation