Started on	Thursday, 30 January 2025, 11:55 AM
	Finished
	Thursday, 30 January 2025, 12:00 PM
	4 mins 59 secs
Marks	10.00/10.00
Grade	<b>100.00</b> out of 100.00
Question 1 Complete Mark 1.00 out of 1.00	
and the hidden size is	ape of Q, K, and V in the ScaledDotProduct Attention forward pass ? (Assuming batch size is B, the sequence length is L, s H)
a. (H, B, L)	
<ul><li>b. (B, L, H)</li></ul>	
c. (B, H, L)	
od. (L, B, H)	
Question 2	
Complete	
Mark 1.00 out of 1.00	
What does the term "scaled dot-product attention" refer to?	
a. Scaling the dot product of query and key vectors by the softmax operation	
<ul><li>b. Applying bat</li></ul>	cch normalization to the query and key vectors
c. Computing a	attention weights using convolution operations
d. Scaling the o	lot product of query and key vectors by the square root of the key vector dimension
2	
Question 3	
Complete	
Mark 1.00 out of 1.00	
What role does the "key" vector play in the attention mechanism?	
a. It is the final	output of the attention module
ob. It is an initial	ization for positional embeddings
c. It is used to	compute the similarity with the query
O d. It determines	s the scaling factor for normalization

Question 4		
Complete		
Mark 1.00 out of 1.00		
What are the three main components of the attention mechanism?		
a. Queries, Keys, and Values		
O b. Keys, Weights, and Queries		
oc. Inputs, Outputs, and Weights		
O d. Scores, Values, and Gradients		
Question 5		
Complete		
Mark 1.00 out of 1.00		
Which of the following is a key step in the attention mechanism?		
a. Ignoring the context vector		
○ b. Selecting a random set of features		
oc. Applying dropout to all layers		
d. Calculating the softmax values over all inputs		
Question 6		
Question 6 Complete		
Complete		
Complete Mark 1.00 out of 1.00		
Complete		
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Question 8 Complete	
Mark 1.00 out of 1.00	
In the tokenization process, what does word_to_index[token] = len(word_to_index) + 1 accomplish?	
<ul><li>a. It maps unique tokens to their corresponding indices.</li><li>b. It removes duplicates from the token list.</li></ul>	
c. It ensures tokens are indexed starting from 0.	
Od. It initializes the word embedding layer.	
Question 9 Complete	
Mark 1.00 out of 1.00	
Which of the following types of attention is commonly used in Transformer models?	
a. Local attention	
○ b. Temporal attention	
o c. Global attention	
d. Multi-head self-attention	
Question 10	
Complete	
Mark 1.00 out of 1.00	
What does the DataLoader class achieve in the code?	
a. It computes the loss and gradients during backpropagation.	
<ul><li>b. It batches the data and allows shuffling for training.</li></ul>	
o. It preprocesses the text and sentiment labels.	
O d. It splits the data into training and testing sets.	