	Monday, 3 February 2025, 12:10 PM
	Finished
-	Monday, 3 February 2025, 12:15 PM
	5 mins 3 secs
Marks	10.00/10.00
Grade	100.00 out of 100.00
Question 1 Complete Mark 1.00 out of 1.00	
What is the role of pa	adding in the dataset?
a. To make all i	nput sequences the same length
b. To improve t	he accuracy of sentiment classification
	issing words with synonyms
	nnecessary words from sentences
d. To remove a	intecessary words worn semences
Question 2 Complete Mark 1.00 out of 1.00	
Wark 1.00 out of 1.00	
What is the purpose	of `TensorDataset` in PyTorch?
a. To split datas	sets into training and testing sets
b. To convert ca	ategorical data into numerical form
c. To apply date	a augmentation to text data
	lataset from tensors for PyTorch DataLoader
Question 3 Complete	
Mark 1.00 out of 1.00	
After passing through	n the embedding layer, what is the shape of the output tensor?
a. (batch_size, l	nidden_size, max_len)
○ b. (batch_size, e	embedding_dim, max_len)
c. (batch_size, ı	max_len, embedding_dim)
d. (batch_size, ı	

Question 4 Complete		
Mark 1.00 out of 1.00		
What is th	ne shape of the hidden state in an LSTM layer?	
○ a. (l	patch_size, hidden_size)	
	patch_size, num_classes)	
	patch_size, max_len, hidden_size)	
	num_layers, batch_size, hidden_size)	
Question 5		
Complete		
Mark 1.00 out	of 1.00	
What is th	ne shape of the padded sequence tensor `X`?	
○ a. (l	patch_size, num_classes)	
	number_of_samples, hidden_size)	
	patch_size, embedding_dim)	
d. (r	number_of_samples, max_len)	
Question 6		
Complete		
Mark 1.00 out of 1.00		
What is the shape of the context vector in attention mechanisms?		
a. (l	patch_size, max_len, num_classes)	
O b. (l	patch_size, max_len, hidden_size)	
o. (l	patch_size, num_heads, max_len, hidden_size)	
d. (l	patch_size, hidden_size)	
Question 7		
Complete		
Mark 1.00 out	of 1.00	
How does the `predict_sentiment` function process input text?		
o a. It	converts text to one-hot vectors and applies an embedding layer.	
o b. It	tokenizes, converts words to indices, pads sequences, and then passes them to the model.	
O c. It	directly passes raw text to the model.	
Od. It	only tokenizes the input before passing it to the model.	

Question 8
Complete
Mark 1.00 out of 1.00
What is the shape of the output from an LSTM layer before applying attention?
a. (batch_size, num_classes)
○ b. (batch_size, hidden_size, max_len)
c. (batch_size, max_len, hidden_size)
Od. (batch_size, embedding_dim, hidden_size)
Question 9
Complete
Mark 1.00 out of 1.00
What is the purpose of the `simple_tokenize` function in the code?
a. To split text into lowercase words based on spaces
b. To remove punctuation from text
c. To convert text into word embeddings
d. To convert words into numbers
a. To convert words into numbers
Question 10
Complete
Mark 1.00 out of 1.00
How is the attention score calculated in the `ScaledDotAttention` class?
a. Q x K^T
 b. Q × K^T / sqrt(hidden_size)
c. Q × V^T / sqrt(hidden_size)
○ d. Q×K