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| **Answers** | |
| **Section:** | |
| Q1. | Q1  "While the film's cinematography was captivating, the storyline left much to be desired".  What is the overall sentiment of the text, considering both positive and negative aspects?  A) Positive  B) Negative  C) Neutral |
| **Ans:** | B) Negative  # Initialize the sentiment-analysis pipeline  sentiment\_classifier = pipeline("sentiment-analysis")  # Given text  text = "While the film's cinematography was captivating, the storyline left much to be desired."  # Analyze sentiment  result = sentiment\_classifier(text)[0]  sentiment = result['label']  print(result) |
| Q2. | "Economics is the study of how societies allocate limited resources to meet their diverse needs and desires. It examines production, consumption, and distribution of goods and services. Economists analyze markets, government policies, and individual behavior to understand and improve economic systems, addressing crucial issues like inflation, unemployment, and income distribution". |
| **Ans**: | **D)** It's equally distributed between multiple topics  **from transformers import pipeline**  **# Initialize the sentiment-analysis pipeline**  **sentiment\_classifier = pipeline("sentiment-analysis")**  **# Given text**  **text = "Economics is the study of how societies allocate limited resources to meet their diverse needs and desires. It examines production, consumption, and distribution of goods and services. Economists analyze markets, government policies, and individual behavior to understand and improve economic systems, addressing crucial issues like inflation, unemployment, and income distribution"**  **# Analyze sentiment**  **result = sentiment\_classifier(text)[0]**  **sentiment = result['label']**  **print(result)** |
| Q3. | "On April 26, 1986, the Chernobyl Nuclear Power Plant in Pripyat, Ukraine, suffered a catastrophic explosion".  What is the recognized entity type for "Chernobyl Nuclear Power Plant"? |
| **Ans:** | E) None of the above  import spacy  # Load the English language model  nlp = spacy.load("en\_core\_web\_sm")  # Given text  text = "On April 26, 1986, the Chernobyl Nuclear Power Plant in Pripyat, Ukraine, suffered a catastrophic explosion."  # Process the text  doc = nlp(text)  # Find the entity type for "Chernobyl Nuclear Power Plant"  entity\_type = None  for ent in doc.ents:  if ent.text == "Chernobyl Nuclear Power Plant":  entity\_type = ent.label\_  break  # Print the recognized entity type  if entity\_type:  print(f"The recognized entity type for 'Chernobyl Nuclear Power Plant' is: {entity\_type}")  else:  print("The entity 'Chernobyl Nuclear Power Plant' was not recognized.") |

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| **Answers** | |
| **Section:** | |
| Q4. |  |
| **Ans:** |  |