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In [1]: !pip install spacy # installing spacy for text processing
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ERROR: Invalid requirement: '#'
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[notice] A new release of pip is available: 23.1.2 -> 23.3.1
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[notice] To update, run: python.exe -m pip install --upgrade pip
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In [2]: # importing libraries that are necessary
import spacy
import random
# !python -m spacy download en_core_web_sm # python package to be downloaded for te
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In [3]: # creating object for loading the english language model
nlp = spacy.load("en_core_web_sm")
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In [12]: # function to get text as input and no of questions
def get_mca_questions(context: str, num_of_questions):
    doc = nlp(context)

    # function block for generating the mcq question format
    def generate_mcq_with_multiple_ans(question, correct_ans, options, num_of_options):
        options = correct_ans + options
        random.shuffle(options)

        mcqs = {
            "question": question,
            "options": options,
            "correct_answers": correct_ans
        }

        return mcqs

    # function block to generate question, options and correct answers
    def generate_variety_question():
        sentence = random.choice(list(doc.sents))
        blank_word = random.choice([token for token in sentence if not token.is_punct])

        question_text = sentence.text.replace(blank_word.text, "_____")
        correct_answers = [blank_word.text]

        other_options = [token.text for token in doc if token.is_alpha and token.text != blank_word.text]
        num_correct_options = random.randint(1, 2) # Generate 1 or 2 correct options
        correct_answers.extend(random.sample(other_options, num_correct_options))

        num_other_options = min(4 - num_correct_options, len(other_options))
        other_options = random.sample(other_options, num_other_options)

        mcq = generate_mcq_with_multiple_ans(question_text, correct_answers, other_options, num_of_options)
        return mcq

    questions = [generate_variety_question() for _ in range(num_of_questions)]

    mca_questions = []
    # iterating over the question, option and correct answers
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for i, question in enumerate(questions, start=1):
    question_txt = f"Question{i}: {question['question']}\n"
    options_txt = ""
    for j, option in enumerate(question['options']):
        options_txt += f"{j+1}. {option}\n"

    correct_options = " , ".join([f"({chr(97+question['options'].index(ans)))}")
    correct_options_str = f"Correct Options: {correct_options}"

    mca_question = f"{question_txt}{options_txt}{correct_options_str}\n"
    mca_questions.append(mca_question)
return mca_questions

# iterating thorough the total question one by one and printing it
context = input("Enter the paragraph: ")
num_of_questions = int(input("Enter the number of questions: "))
mca_questions = get_mca_questions(context, num_of_questions)
for question in mca_questions:
    print(question)

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Enter the paragraph: In 1600, the East India Company acquired a charter from the ruler of England, Queen Elizabeth I, granting it the sole right to trade with the East. This meant that no other trading group in England could compete with the East India Company. With this charter, the Company could venture across the oceans, looking for new lands from which it could buy goods at a cheap price, and carry them back to Europe to sell at higher prices. The Company did not have to fear competition from other English trading companies. Mercantile trading companies in those days made profit primarily by excluding competition, so that they could buy cheap and sell dear. The royal charter, however, could not prevent other European powers from entering the Eastern markets. By the time the first English ships sailed down the west coast of Africa, round the Cape of Good Hope, and crossed the Indian Ocean, the Portuguese had already established their presence in the western coast of India, and had their base in Goa. In fact, it was Vasco da Gama, a Portuguese explorer, who had discovered this sea route to India in 1498. By the early seventeenth century, the Dutch too were exploring the possibilities of trade in the Indian Ocean. Soon the French traders arrived on the scene.

Enter the number of questions: 5

Question1: By the time the first English ships sailed down the west coast of Africa, round the Cape of Good Hope, and crossed the Indian Ocean, the Portuguese had already established their presence in the western coast of India, and had their _____ in Goa.

1. acquired
2. European
3. the
4. I
5. base

Correct Options: (e) , (b) , (c)

Question2: In 1600, the East India Company acquired a charter from the ruler _____ England, Queen Elizabeth I, granting it the sole right to trade with the East.

1. base
2. from
3. of
4. Queen
5. Company

Correct Options: (c) , (e)

Question3: Soon the French traders _____ on the scene.

1. charter
2. arrived
3. however
4. in
5. it

Correct Options: (b) , (e) , (c)

Question4: Mercantile trading companies in those days _____ profit primarily by excluding competition, so that they could buy cheap and sell dear.

1. the
2. Ocean
3. sailed
4. in
5. made

Correct Options: (e) , (b)

Question5: _____ 1600, the East _____dia Company acquired a charter from the ruler of England, Queen Elizabeth I, granting it the sole right to trade with the East.

1. of
2. Company
3. trading
4. could
5. In

Correct Options: (e) , (d) , (a)

In []: