## #!pip install transformers Collecting transformers Downloading https://files.pythonhosted.org/packages/50/0c/7d5950fcd80b029be0a8891727ba21e0cd27692c407c51261c3c921f6da 1.5MB 5.8MB/s Requirement already satisfied: numpy in /usr/local/lib/python3.6/dist-packages (from transformers) (1.19.4) Requirement already satisfied: tqdm>=4.27 in /usr/local/lib/python3.6/dist-packages (from transformers) (4.41.1) Requirement already satisfied: filelock in /usr/local/lib/python3.6/dist-packages (from transformers) (3.0.12) Requirement already satisfied: dataclasses; python version < "3.7" in /usr/local/lib/python3.6/dist-packages (from tran Requirement already satisfied: packaging in /usr/local/lib/python3.6/dist-packages (from transformers) (20.8) Collecting sacremoses Downloading https://files.pythonhosted.org/packages/7d/34/09d19aff26edcc8eb2a01bed8e98f13a1537005d31e95233fd48216eed1 890kB 44.9MB/s Requirement already satisfied: regex!=2019.12.17 in /usr/local/lib/python3.6/dist-packages (from transformers) (2019.12 Requirement already satisfied: requests in /usr/local/lib/python3.6/dist-packages (from transformers) (2.23.0) Collecting tokenizers==0.9.4 Downloading https://files.pythonhosted.org/packages/0f/1c/e789a8b12e28be5bc1ce2156cf87cb522b379be9cadc7ad8091a4cc107c | 2.9MB 46.2MB/s Requirement already satisfied: pyparsing>=2.0.2 in /usr/local/lib/python3.6/dist-packages (from packaging->transformers Requirement already satisfied: six in /usr/local/lib/python3.6/dist-packages (from sacremoses->transformers) (1.15.0) Requirement already satisfied: click in /usr/local/lib/python3.6/dist-packages (from sacremoses->transformers) (7.1.2) Requirement already satisfied: joblib in /usr/local/lib/python3.6/dist-packages (from sacremoses->transformers) (1.0.0) Requirement already satisfied: idna<3,>=2.5 in /usr/local/lib/python3.6/dist-packages (from requests->transformers) (2. Requirement already satisfied: urllib3!=1.25.0,!=1.25.1,<1.26,>=1.21.1 in /usr/local/lib/python3.6/dist-packages (from Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.6/dist-packages (from requests->transformer Requirement already satisfied: chardet<4,>=3.0.2 in /usr/local/lib/python3.6/dist-packages (from requests->transformers Building wheels for collected packages: sacremoses Building wheel for sacremoses (setup.py) ... done Created wheel for sacremoses: filename=sacremoses-0.0.43-cp36-none-any.whl size=893261 sha256=ecd3fde21cf27f5b61ef027 Stored in directory: /root/.cache/pip/wheels/29/3c/fd/7ce5c3f0666dab31a50123635e6fb5e19ceb42ce38d4e58f45 Successfully built sacremoses Installing collected packages: sacremoses, tokenizers, transformers Successfully installed sacremoses-0.0.43 tokenizers-0.9.4 transformers-4.1.1 import torch from transformers import BertForQuestionAnswering from transformers import BertTokenizer #Model

```
model = BertForQuestionAnswering.from pretrained('bert-large-uncased-whole-word-masking-finetuned-squad')
#Tokenizer
tokenizer = BertTokenizer.from pretrained('bert-large-uncased-whole-word-masking-finetuned-squad')
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question = '''Why was the student group called "the Methodists?"'''
paragraph = ''' The movement which would become The United Methodist Church began in the mid-18th century within the Church
            A small group of students, including John Wesley, Charles Wesley and George Whitefield, met on the Oxford University
            They focused on Bible study, methodical study of scripture and living a holy life.
            Other students mocked them, saying they were the "Holy Club" and "the Methodists", being methodical and exception
            Eventually, the so-called Methodists started individual societies or classes for members of the Church of England
encoding = tokenizer.encode plus(text=question,text pair=paragraph)
inputs = encoding['input ids'] #Token embeddings
sentence_embedding = encoding['token_type_ids'] #Segment embeddings
tokens = tokenizer.convert ids to tokens(inputs) #input tokens
#pip install transformers==3
start scores, end scores = model(input ids=torch.tensor([inputs]),token type ids=torch.tensor([sentence embedding]))
start index = torch.argmax(start scores)
end index = torch.argmax(end scores)
```

```
answer = ' '.join(tokens[start_index:end_index+1])

corrected_answer = ''

for word in answer.split():

    #If it's a subword token
    if word[0:2] == '##':
        corrected_answer += word[2:]
    else:
        corrected_answer += ' ' + word
```

print(corrected\_answer)

methodical and exceptionally detailed in their bible study , opinions and disciplined lifestyle