

```

1  import openpyxl
2  import requests
3
4  # Please start this script with sufficient privileges (administrator rights) in order to
  obtain permission to modify files. Otherwise, Excel cannot edit and save, and do not
  open the target Excel spreadsheet while the script is running
5
6  def read_from_excel(file_path, sheet_name, column, label, reason):
7      workbook = openpyxl.load_workbook(file_path)
8      sheet = workbook[sheet_name]
9      return sheet, workbook, column, label, reason
10
11 def write_response_to_excel(sheet, row, response, label, reason):
12     if response.startswith("Yes"):
13         # Write the entire text of the answer into the 'reason' column cell in the same
           row
14         sheet[f"{reason}{row}"].value = response
15         # Write 'Yes' in the 'label' column cell in the same row
16         sheet[f"{label}{row}"].value = "Yes"
17     elif response.startswith("No"):
18         # Write 'No' in the 'label' column cell in the same row.
19         sheet[f"{label}{row}"].value = "No"
20
21 def ask_chatgpt(question):
22     # Set OpenAI API_key
23     api_key = "Your Own Key"
24
25     # Set the API request headers
26     headers = {
27         "Content-Type": "application/json",
28         "Authorization": f"Bearer {api_key}"
29     }
30
31     # Set the URL and parameters for the API request
32     url = "https://api.openai.com/v1/chat/completions"
33     payload = {
34         "model": "gpt-4", # Or "gpt-3.5
35         "messages": [
36             {"role": "system", "content": "'You are a helpful assistant.Your answer
           must strictly follow the following format: analyze the question and only
           reply Yes or No. If it is Yes, then you need to explain the reason and reply
           additionally with reason. Let me give you an example:
37     example 1: question: "If you don't eat, you will starve to death." You need to answer:
           "Yes, human life activities require energy, and if you don't eat, you will indeed starve
           to death."
38     example 2: question: "The sun rises from the west", you only need to answer: "No"',},
39         {"role": "user", "content": question}
40     ]
41     }
42
43     # Send API request
44     response = requests.post(url, json=payload, headers=headers)
45
46     # Parse the response
47     if response.status_code == 200:
48         answer = response.json()["choices"][0]["message"]["content"]
49         return answer
50     else:
51         return "Unable to connect to the ChatGPT server"
52
53 def main():
54     print("Please launch this script with sufficient privileges (administrator rights)
           to gain permission to modify files. Otherwise, Excel will not be able to edit and
           save, and do not open the target Excel spreadsheet while the script is running")
55     print("示例输入:")
56     print("""Enter Excel file path:C:\\Users\\YourName\\Desktop\\ChatGPT-3.5 Tagging.xlsx
57     Enter tab name:Dataset-3

```

```

58 Loop start row number:10
59 Loop end row number:15
60 Description column number:C
61 Label number:D
62 Answer Column Number:E
63 -----"")
64     file_path = input("Enter the Excel file path: ")
65     sheet_name = input("Enter the sheet name: ")
66     start = int(input("Enter the start row number for the loop: "))
67     end = int(input("Enter the end row number for the loop: "))
68     column = input("Enter the column number for Description: ") # Description is in
        column B for Dataset-1 and Dataset-2, and in column C for Dataset-3
69     label = input("Enter the column number where 'Yes' or 'No' will be stored: ") # For
        Dataset-1 and Dataset-2, it's in column C, for Dataset-3, it's in column D
70     reason = input("Enter the column number where the answer will be stored: ") # For
        Dataset-1 and Dataset-2, it's in column D, for Dataset-3, it's in column E
71
72
73     sheet, workbook, column, label, reason = read_from_excel(file_path, sheet_name,
        column, label, reason)
74
75     for i in range(start, end+1):
76         base = sheet[f"{column}{i}"].value
77         if not base:
78             break
79
80         prefix = "This is a bug ticket description: "
81         delimiter = '""""'
82         suffix = "Is this bug description related to software performance? If yes,
            why?If No, no need to answer the reason"
83
84         question = prefix + delimiter + base + delimiter + suffix
85
86         answer = ask_chatgpt(question)
87         print("The question translated from your Excel file is:", question)
88         print(f"{column}{i}: ", answer)
89         print("*" * 10)
90
91         write_response_to_excel(sheet, i, answer, label, reason)
92
93     workbook.save(file_path) # Save the workbook to write all changes
94
95 if __name__ == "__main__":
96     main()

```