1. Please describe the architecture of the current chatbot system. Identify the components and check where are they running now.

<u>Ans</u>: Telegram Bot API: This API allows the chatbot to interact with Telegram users by sending and receiving messages

Updater: This component is provided by the Telegram Bot API and is used to receive updates from Telegram

Redis Database: Redis is used to store the number of times each keyword has been mentioned.

Message Handlers: These are the functions that are executed when the chatbot receives a message or command from a user.

Logging: The logging module is used to log information about the status of the bot and the incoming and outgoing messages.

Handlers: defines several handlers that process user messages in different ways. For example, add handler increments the count of a specific keyword that the user has sent.

2. Explain how do your chatbot handle the special command. You need to trace the code and explain that.

<u>Ans</u>: The chatbot handles special commands using Commandler instances. When a user sends a command starting with "/", the command handler will invoke the corresponding function to process the command.

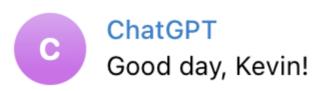
For example, the command /add is handled by the add function, which takes two arguments, update and context. The update argument contains information about the user and the message, while the context argument provides access to the bot's functionality.

The help_command function is similar, in that it sends a message to the user when the /help command is received.

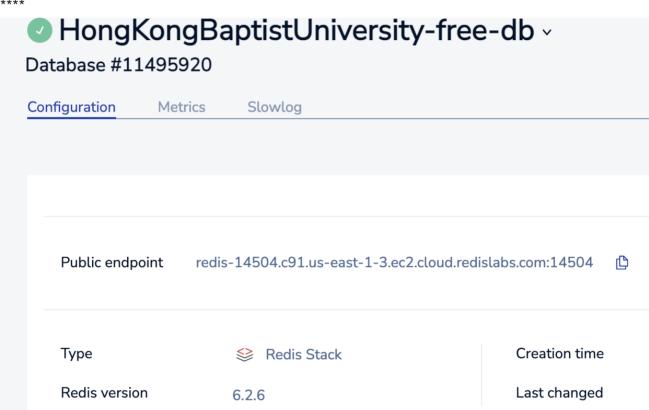
3. Update your code so that when user type /hello Kevin, it will reply Good day, Kevin!. Writedown the change you have made

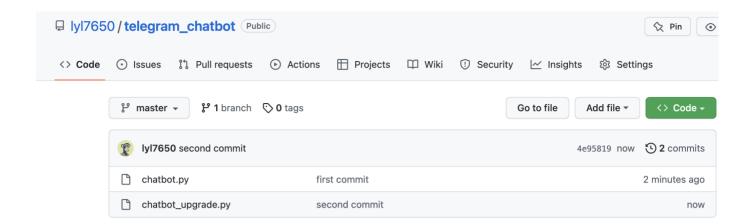
```
def help_command(update: Update, context: CallbackContext) -> None:
"""Send a message when the command /help or /helloKevin is issued."""
if update.message.text == '/helloKevin':
    update.message.reply_text('Good day, Kevin!')
else:
    update.message.reply_text('Good to see you.')
```





4. Make a few screen caps to prove that you have applied your own Redis account, used it in your chatbot, and push the code on GitHub (at least 2 commits - lab3/lab4).







yl luo /helloKevin



ChatGPT Good day, Kevin!



yl luo /add luoyulin



ChatGPT

You have said luoyulin for 1 times.



yl luo hello



ChatGPT HELLO