Homework 9

Task 1

```
from telegram import Update
from telegram.ext import Application, CommandHandler, MessageHandler, filters, ContextTypes
API TOKEN = '7765799285:AAEspqbsgtb00gb3anyD07hqDNKT873RZHI'
async def start(update: Update, context: ContextTypes.DEFAULT TYPE) -> None:
   await update.message.reply_text("Hello! I am your AI assistant, how can I help you!")
async def handle_message(update: Update, context: ContextTypes.DEFAULT TYPE) -> None:
   await update.message.reply_text("I have received your message: \"{}\"".format(user response))
def main():
   application = Application.builder().token(API TOKEN).build()
   application.add handler(CommandHandler("start", start))
   application.add_handler(MessageHandler(filters.TEXT & ~filters.COMMAND, handle message))
   # Start the bot
   application.run_polling()
   main()
```

Task 2

GitHub - https://github.com/Shagun-Shah/DSSS Homework 9
Telegram Bot address - https://t.me/DSSSA9Bot

Task 2

```
from telegram import Update
from telegram.ext import Application, CommandHandler, MessageHandler, filters, ContextTypes
 from transformers import pipeline
 import os
os.environ["HF_HUB_DISABLE_SYMLINKS_WARNING"] = "1"
API TOKEN = "7765799285:AAEspqbsgtb00gb3anyD07hqDNKT873RZHI"
    "text-generation",
    model="TinyLlama/TinyLlama-1.1B-Chat-v1.0",
    torch dtype="bfloat16",
    device map="auto"
 async def start(update: Update, context: ContextTypes.DEFAULT_TYPE) -> None:
    await update.message.reply text("Hello! I am your AI assistant, how can I help you!")
 async def stop(update: Update, context: ContextTypes.DEFAULT_TYPE) -> None:
    await update.message.reply text("Stopping the bot. Goodbye!")
 async def handle_message(update: Update, context: ContextTypes.DEFAULT_TYPE) -> None:
    await update.message.reply text(f"I have received your message: \"{user response}\"")
        await update.message.reply text("Sorry, the AI assistant is currently unavailable.")
        messages = [{"role": "user", "content": user_response}]
        prompt = pipe.tokenizer.apply_chat_template(messages, tokenize=False, add_generation_prompt=True)
        outputs = pipe(prompt, max new tokens=180, do sample=True, temperature=0.5, top k=50, top p=0.95
        assistant_response = outputs[0]["generated_text"].split("<|assistant|>")[-1].strip()
        await update.message.reply text(assistant response)
    except Exception as e:
        print(f"Error during message processing: {e}")
        await update.message.reply text("Something went wrong. Please try again later.")
    application = Application.builder().token(API TOKEN).build()
    application.add handler(CommandHandler("start", start))
    application.add handler(CommandHandler("stop", stop))
    application.add handler(MessageHandler(filters.TEXT & ~filters.COMMAND, handle_message))
    import asyncio
```

