

```
pip install transformers torch
from transformers import MarianMTModel, MarianTokenizer
```

```
def load_model_and_tokenizer(model_name):
    # Load model and tokenizer
    model = MarianMTModel.from_pretrained(model_name)
    tokenizer = MarianTokenizer.from_pretrained(model_name)
    return model, tokenizer
```

```
# Example model for English to French translation
model_name = "Helsinki-NLP/opus-mt-en-fr"
model, tokenizer = load_model_and_tokenizer(model_name)
```

```
def translate_text(text, model, tokenizer):
    # Tokenize input text
    inputs = tokenizer(text, return_tensors="pt", padding=True)

    # Perform translation
    translated = model.generate(**inputs)

    # Decode the translated text
    translated_text = tokenizer.decode(translated[0], skip_special_tokens=True)

    return translated_text
```

```
# Example usage
text_to_translate = "Hello, how are you?"
translated_text = translate_text(text_to_translate, model, tokenizer)
print(f"Translated text: {translated_text}")
```

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    # Tokenize input text
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    # Perform translation
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    # Decode the translated text
    translated_text = tokenizer.decode(translated[0], skip_special_tokens=True)
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```
return translated_text
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```
# Example usage
```

```
text_to_translate = "Hello, how are you?"
```

```
translated_text = translate_text(text_to_translate, model, tokenizer)
```

```
print(f"Translated text: {translated_text}")
```

```
def main():
```

```
    print("Welcome to the Translation Tool!")
```

```
    print("Available models:")
```

```
    print("1. English to French: Helsinki-NLP/opus-mt-en-fr")
```

```
    # Add more models as needed
```

```
    model_choice = input("Enter the model name (e.g., Helsinki-NLP/opus-mt-en-fr): ")
```

```
    model, tokenizer = load_model_and_tokenizer(model_choice)
```

```
    while True:
```

```
        text_to_translate = input("Enter text to translate (or type 'exit' to quit): ")
```

```
        if text_to_translate.lower() == 'exit':
```

```
            break
```

```
        translated_text = translate_text(text_to_translate, model, tokenizer)
```

```
        print(f"Translated text: {translated_text}")
```

```
if __name__ == "__main__":
```

```
    main()
```