

```
import requests
```

```
def get_exchange_rate(api_key, base_currency, target_currency):
```

```
    """
```

Fetches the exchange rate from the ExchangeRate-API.

Args:

api_key (str): Your API key for ExchangeRate-API.

base_currency (str): The currency to convert from (e.g., "USD").

target_currency (str): The currency to convert to (e.g., "INR").

Returns:

float: The exchange rate from base_currency to target_currency, or None if an error occurs.

```
    """
```

```
    url =  
    f"https://v6.exchangerate-api.com/v6/{api_key}/latest/{base_currency.upper()}"
```

```
    try:
```

```
        response = requests.get(url)
```

```
        response.raise_for_status() # Raise an exception for HTTP errors (4xx or  
5xx)
```

```
        data = response.json()
```

```
        if data["result"] == "success":
```

```
            if target_currency.upper() in data["conversion_rates"]:
```

```
                return data["conversion_rates"][target_currency.upper()]
```

```
            else:
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```
                print(f"Error: Target currency '{target_currency}' not found in  
exchange rates.")
```

```
                return None
```

```

    else:

        print(f"Error fetching exchange rates: {data['error-type']}")

        return None

except requests.exceptions.RequestException as e:

    print(f"Error connecting to the API: {e}")

    return None

except ValueError as e:

    print(f"Error parsing JSON response: {e}")

    return None


def convert_currency(amount, exchange_rate):
    """
    Performs the currency conversion.

    Args:
        amount (float): The amount to convert.
        exchange_rate (float): The exchange rate.

    Returns:
        float: The converted amount.
    """

    return amount * exchange_rate


def main():
    """
    Main function to run the currency converter script.
    """

    # IMPORTANT: Replace 'YOUR_API_KEY' with your actual API key from
    ExchangeRate-API.com

```

```

api_key = "9bfe837870943f0eae2bd68c4f"

if api_key == 'YOUR_API_KEY':
    print("WARNING: Please replace 'YOUR_API_KEY' with your actual API key
from ExchangeRate-API.com")

    print("You can get a free API key by signing up at:
https://www.exchangerate-api.com/")

    return

print("--- Currency Converter ---")

try:
    amount = float(input("Enter amount: "))
except ValueError:
    print("Invalid amount. Please enter a number.")
    return

source_currency = input("Convert from (e.g., USD): ").strip().upper()
target_currency = input("Convert to (e.g., INR): ").strip().upper()

if not source_currency or not target_currency:
    print("Source and target currencies cannot be empty.")
    return

exchange_rate = get_exchange_rate(api_key, source_currency,
target_currency)

if exchange_rate is not None:
    converted_amount = convert_currency(amount, exchange_rate)

```

```
print(f"Converted Amount: {converted_amount:.2f} {target_currency}")
```

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

```
    main()
```